SERVICE MANUAL

FISHER

PD-M66

Integrated Stereo Deck Amplifier

(EUROPE)

132 310 40

WM-17605

SPECIFICATIONS

STEREO DECK AMPLIFIER	**PD-M66**
POWER AMPLIFIER SECTION **Minimum RMS sine wave power per channel within stated bandwidth at no more than stated distortion and with 6-ohm load**	**35 Watts**
Power Bandwidth	**20 Hz – 20 kHz**
Total Harmonic Distortion	**0.9 %**
Speaker Damping	> 20
PREAMPLIFIER SECTION Input Sensitivity and Impedance Phono	3.2 mV/50 kΩ
Tuner/CD/TV/Video	215 mV/50 kΩ
Phono Max. Input Capability	145 mV
Graphic Equalizer	
63 Hz	±10 dB
250 Hz	±10 dB
1 kHz	±10 dB
4 kHz	±10 dB
16 kHz	±10 dB
CASSETTE TAPE DECK SECTION Wow and Flutter (WRMS)	0.06 %
Channel Separation	40 dB
Frequency Response (Fe_2O_3)	50 Hz – 15 kHz
GENERAL SECTION Power Requirements (50 Hz)	AC 220 V
Power Consumption	180 Watts
Dimensions (W x H x D)	336 x 204 x 282 mm
Weight (approx.)	6.8 kg

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Because its products are subject to continuous improvement, Fisher Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

ADJUSTMENTS

BEFORE ADJUSTMENT

If the tape surface whitch contacts the head, the capstan, and the pinch roller, etc., is stained, it will cause unstable running of the tape, wow and flutter, imperfect recording and erasing, deterioration of tonal quality, and the tape jam around the capstan, etc. Occasionally clean each part as follows;

1. Cut off power.
2. Open the cassette lid.
3. Wipe the head, the capstan, and the pinch roller with a cotton swab. If they are excessively stained, clean them with the swab soaked in absolute alcohol or cleaning liquid on the market.

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Dummy Load (47kΩ)
- Frequency Counter
- Signal Oscillator
- Test Tapes
  - ‡ 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
  - ‡ 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
  - ‡ 1.5kHz Test Tape (Example: A.BEX TCW-211) for Double Tape Speed Adjustment
  - ‡ 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
  - ‡ Metal Tape (Example: TDK AC 712)
  - ‡ CrO_2 Tape (Example: TDK AC 512)
  - ‡ Normal Tape (Example: TDK AC 223)

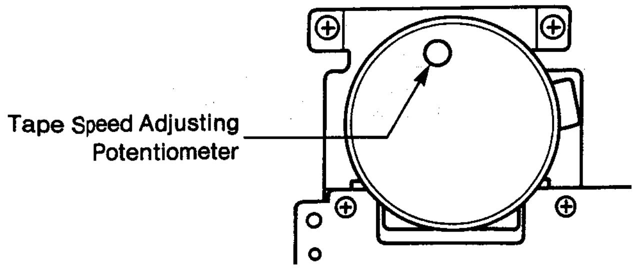
SWITCH POSITIONS

Unless especially indicated, set each switch and volume as follows;

SYNCHRO START Switch	SEQ. PLAY
SPEED Switch	NORMAL
DOLBY NR Switch	OFF
INPUT Volume	MAX

NORMAL TAPE SPEED ADJUSTMENT

1. Connect the dummy load (47kΩ) and the frequency counter to the Speaker terminal (Left).
2. Load Deck 1 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Adjust the potentiometer inside the capstan drive motor, so that the output becomes 3000Hz ±10Hz.
4. Perform the same adjustment for Deck 2.

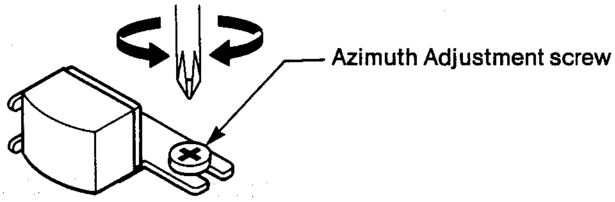


DOUBLE TAPE SPEED ADJUSTMENT

1. Connect the dummy load (47kΩ) and the frequency counter to the Speaker terminal (Left).
2. Short circuit TP1 and TP2 with the resistor 8.2kΩ.
3. Load Deck 1 with a test tape (Example: A.BEX TCW-211) and set it in the playback mode.
4. Adjust Potentiometer P302, so that the output frequency becomes 3000Hz ±20Hz.
5. Adjust Potentiometer P301 for Deck 2 with the same method as described in item 3 and 4.

HEAD AZIMUTH ADJUSTMENT

1. Connect the dummy load (47kΩ) and the dualtrace oscilloscope to the Speaker terminals (Left) and (Right).
2. Load Deck 1 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
3. Adjust the azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the right wave form overlaps with the left one.
4. Perform the same adjustment for Deck 2.



PLAYBACK SENSITIVITY ADJUSTMENT

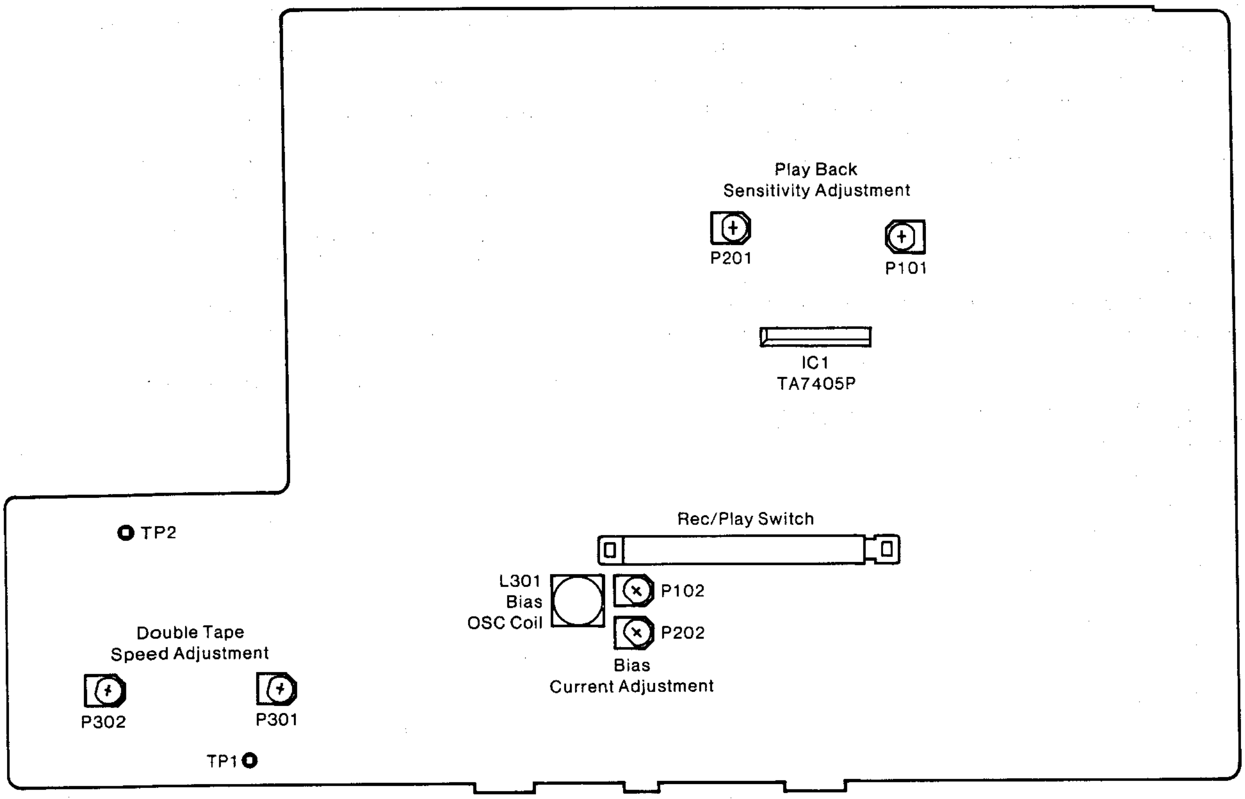
1. Conncet the dummy load (47kΩ) and AC VTVM to the LINE OUT terminal (Left) on the Function Switch P.C.Board.
2. Load Deck 1 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. Adjust Potentiometer P101, so that the output of LINE OUT terminal becomes 520mV.
4. Connect AC VTVM to the LINE OUT terminal (Right) and adjust P201, so that the output becomes 520mV.

BIAS ADJUSTMENT

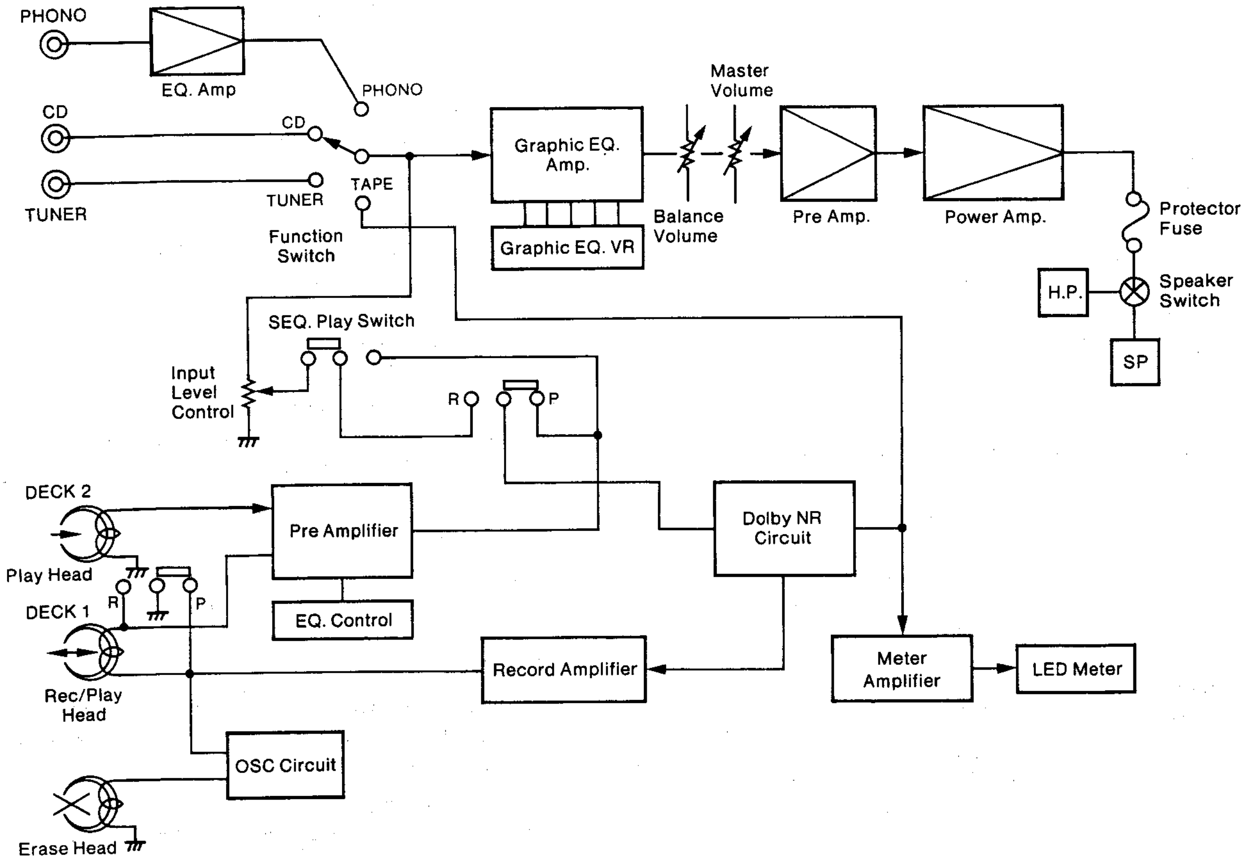
1. Connect the low frequency oscillator to the Left side of the CD Input terminal, and the dummy load (47kΩ) and AC VTVM to the Left side of the LINE OUT terminal on the Function Switch P.C.Board.
2. Load Deck 1 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Set the Input Level volume control to the maximum position and feed the signals of 1kHz and 12kHz at 7mV from the frequency generator into the unit. Then, record the signals on the tape.
4. Play back the recorded signals adjust Potentiometer P102, so that the difference in output of the 1kHz and 12kHz signals become ±0.5dB.
5. Adjust Potentiometer P202 for the Right side by following the same procedures as described for the Left side.

P.C.BOARD LAYOUT ALIGNMENT POINTS

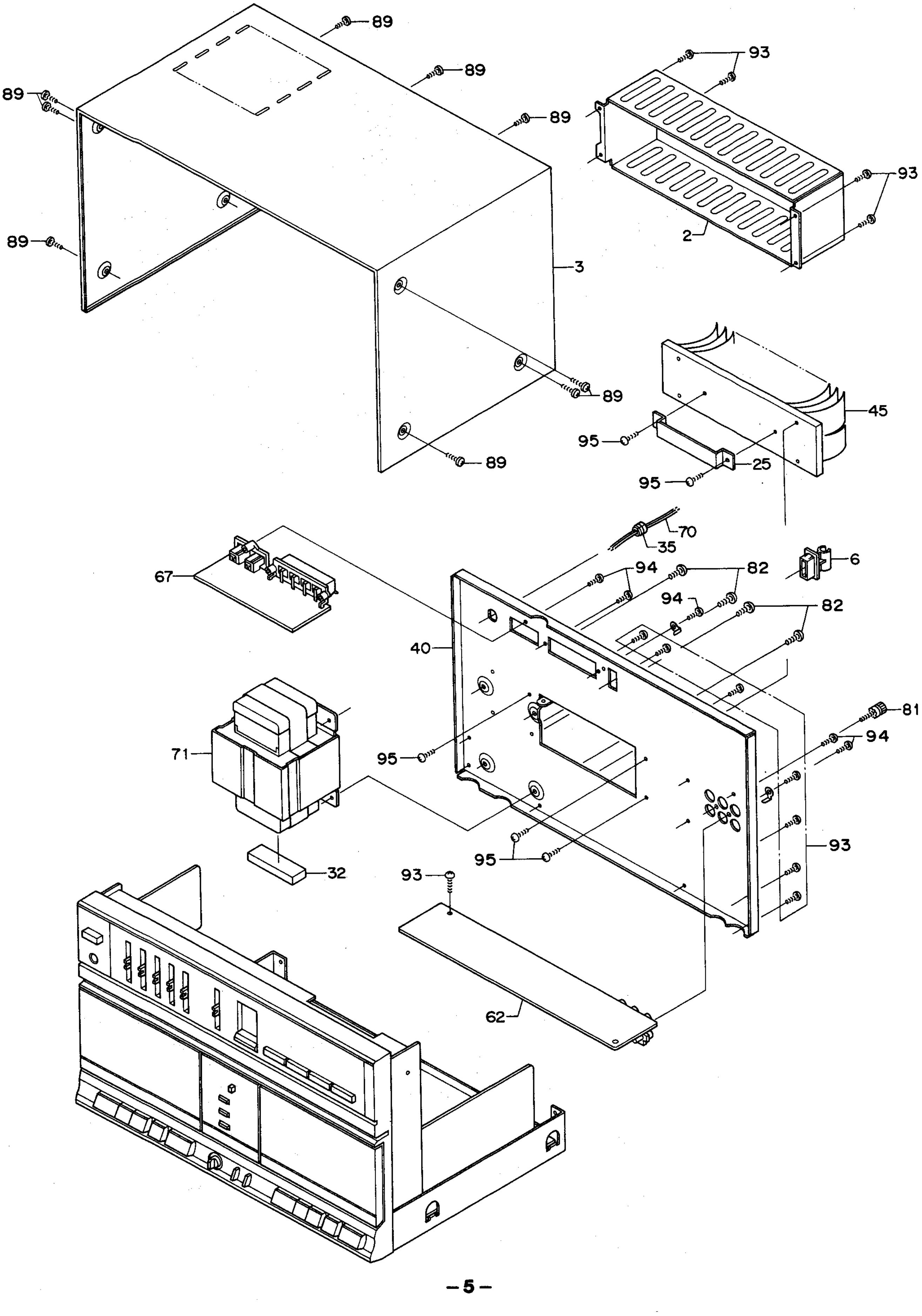
(TOP VIEW)


Play Back
Sensitivity Adjustment
P201
P101
IC1
TA7405P
Rec/Play Switch
TP2
L301
Bias
OSC Coil
P102
P202
Bias
Current Adjustment
Double Tape
Speed Adjustment
P302
P301
TP1

FUNCTIONAL BLOCK DIAGRAM


PHONO
EQ. Amp
PHONO
CD
CD
TUNER
TUNER
TAPE
Function
Switch
Graphic EQ.
Amp.
Graphic EQ. VR
Master
Volume
Balance
Volume
Pre Amp.
Power Amp.
Protector
Fuse
H.P.
Speaker
Switch
SP
SEQ. Play Switch
Input
Level
Control
R
P
DECK 2
Play Head
Pre Amplifier
EQ. Control
Dolby NR
Circuit
DECK 1
R
P
Rec/Play
Head
Record Amplifier
Meter
Amplifier
LED Meter
OSC Circuit
Erase Head

CABINET & CHASSIS EXPLODED VIEW (1)



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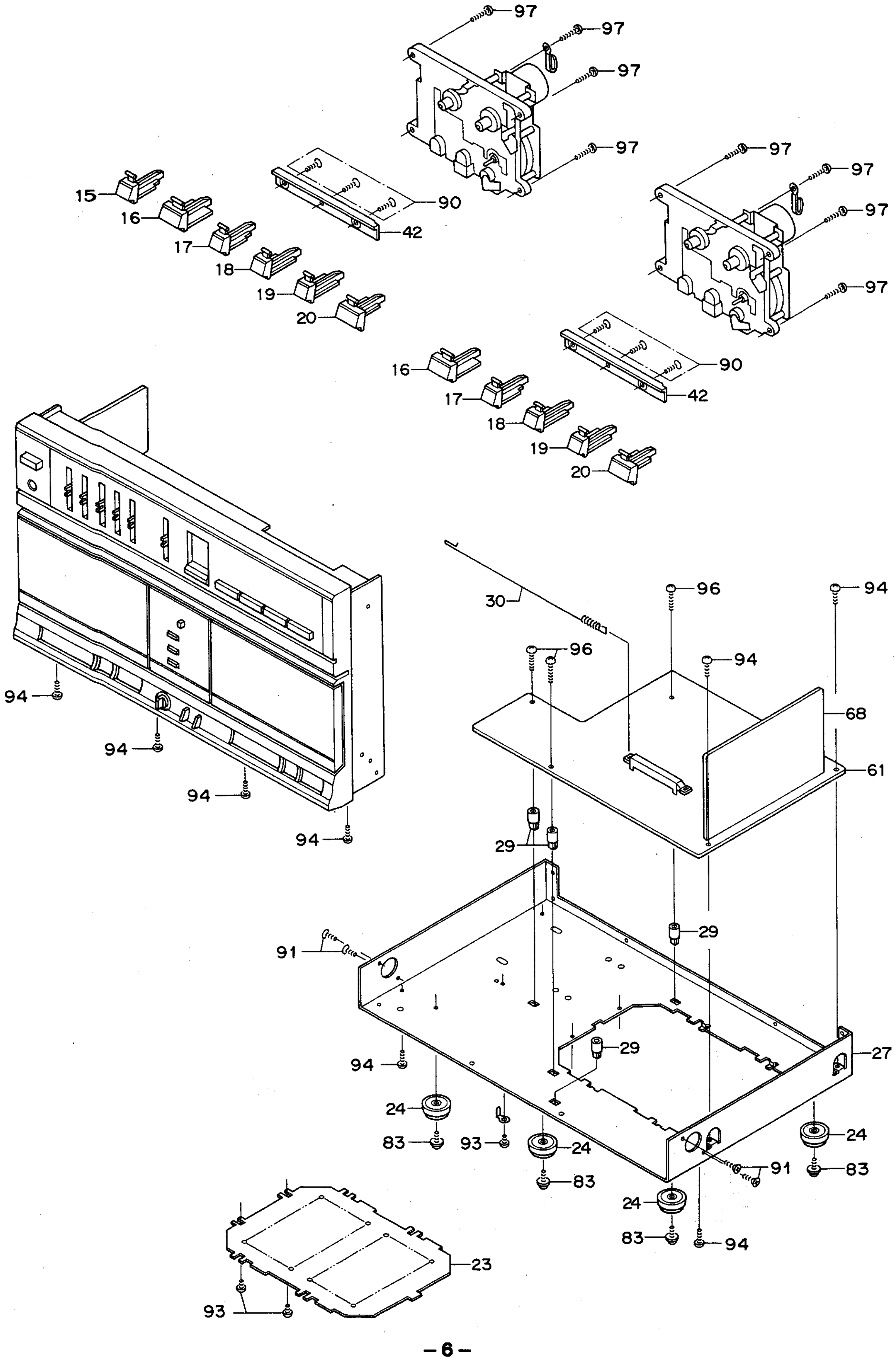
CABINET & CHASSIS EXPLODED VIEW (2)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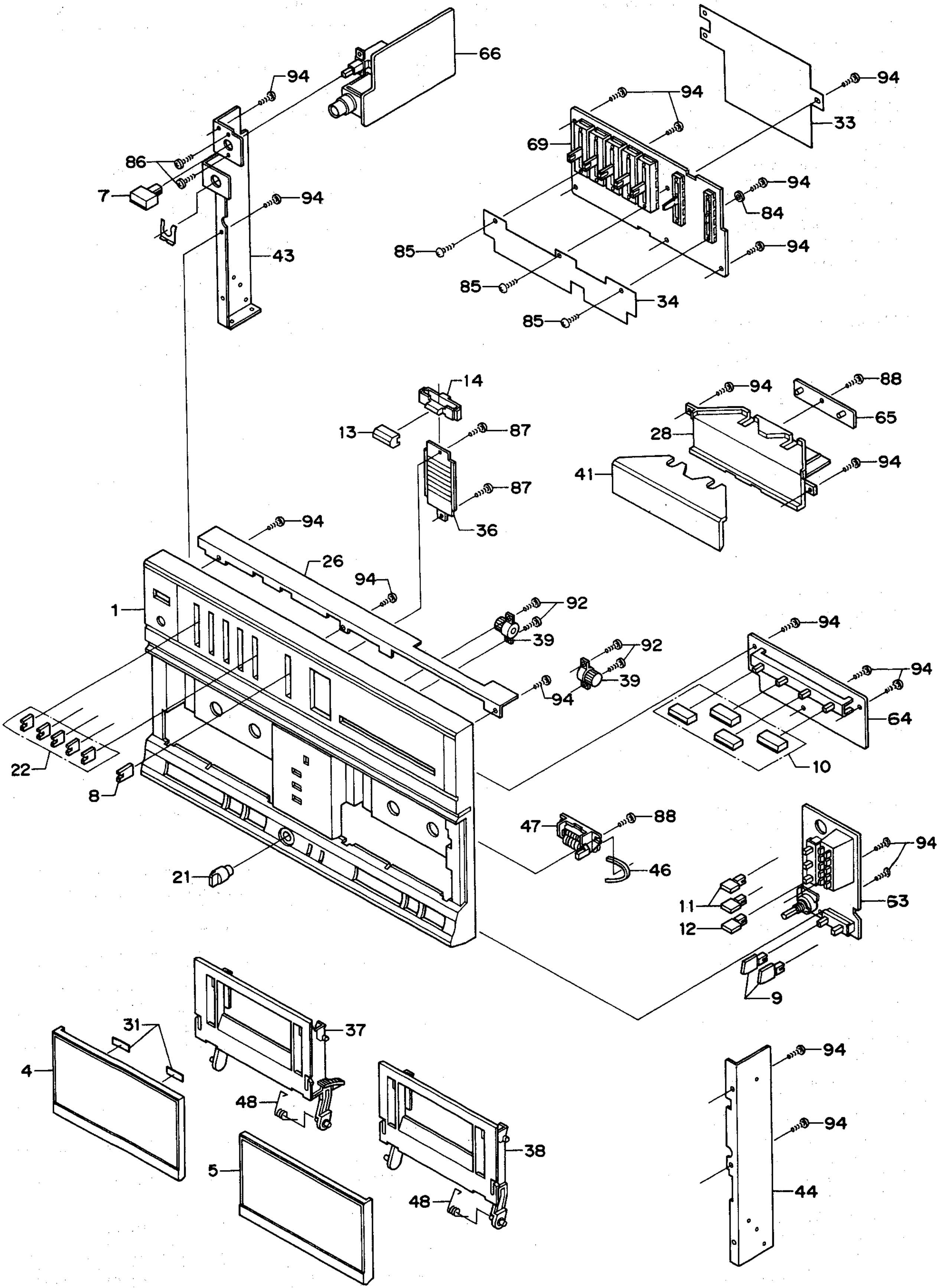
CABINET & CHASSIS EXPLODED VIEW (3)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CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKING PARTS LIST		
	3-9415-10300	Bag Polyethylene	1
	131-6-1169-20000	Box Corrugate-Exp.	1
	131-6-2119-02100	Bag Polyethylene-Exp.	2
	131-6-2119-02250	Bag Polyethylene-Exp.	1
	131-6-2119-02400	Bag Polyethylene-Exp.	1
	131-6-2119-02470	Bag Polyethylene-Exp.	1
	131-6-3009-36300	Pad (Rear)	1
	131-6-3009-36310	Pad (Front)	1
	131-6-3069-17080	Patching Sheet	1
	131-6-4559-11200	Serial No. Sheet	2
	131-6-9459-00300	Rubber Band	1
	ACCESSORIES PARTS LIST		
	131-2-1801-17800	Leg Bottom	2
	131-2-3112-10200	Base Mount Leg	1
	131-6-2719-10401	Bag Fan	1
	142-6-4119-33071	Explanatory Booklet	1
	CABINET & CHASSIS PARTS LIST		
	4-2379-21524	Terminal Lug	2
	131-2-3608-14100	Cramp Wire	8
	131-6-4559-11200	Serial No. Sheet	1
	141-2-4729-04100	Lug	2
1	131-0-1015-12000	Escutcheon Dial Assy	1
	131-2-1202-23500	Escutcheon Dial	1
	131-2-1203-66400	Panel Control	1
	131-2-1203-66500	Panel Control	1
	141-2-1519-48102	Reflection	2
2	131-2-1410-32509	Cover Heat Sink	1
3	131-2-1410-35000	Cover	1
4	141-0-1329-01500	Wind Lid Cassette Assy (Left)	1
	131-2-1110-40400	Plate Decorate (Left)	1
	141-2-1329-20400	Window Lid Cassette (Left)	1
5	141-0-1329-01600	Wind Lid Cassette Assy (Right)	1
	131-2-1110-40500	Plate Decorate (Right)	1
	141-2-1329-20300	Window Lid Cassette (Right)	1
6	141-2-3849-04400	Holder Antenna	1
7	131-2-1601-98400	Knob (Power)	1
8	131-2-1601-99000	Knob (Balance)	1
9	131-2-1601-99100	Knob (Dolby NR)	2
10	131-2-1601-99200	Knob (Function)	4
11	131-2-1601-99300	Knob (Rec Mute/Speed)	2
12	131-2-1601-99301	Knob (Synchro Start)	1
13	131-2-1601-99400	Knob A (Volume)	1
14	131-2-1601-99500	Knob B (Volume)	1
15	141-2-1659-10306	Button Record	1
16	141-2-1659-10406	Button Play	2
17	141-2-1659-10506	Button Rewind	2
18	141-2-1659-10606	Button FF	2
19	141-2-1659-10706	Button Pause	2
20	141-2-1659-10806	Button Eject	2
21	141-2-1659-41602	Knob (Rotary)	1
22	141-2-1659-68800	Knob Cap (Equalizer)	5
23	131-2-1410-35100	Cover (Chassis)	1
24	131-2-1801-12900	Leg	4
25	131-2-3101-90000	Metal Mount (IC)	1
26	131-2-3202-16000	Metal Reinforce	1
27	131-2-3301-32400	Chassis	1
28	131-2-3304-19100	Plate Dial Rear	1
29	131-2-3614-20300	Mount P.C.B.	4
30	131-2-5101-24700	Spring (Record)	1
31	131-2-5205-28500	Cushion	2
32	131-2-5205-35000	Cushion	1
33	131-2-6103-25800	Plate Shield	1
34	131-2-6103-25900	Plate Shield	1
35	131-2-6111-14200	Bushing (AC Code)	1
36	131-2-6113-53100	Shelter Volume	1
37	141-0-1249-37000	Lid Cassette Assy (Left)	1
38	141-0-1249-37100	Lid Cassette Assy (Right)	1
39	141-0-5519-07903	Gear Eject Assy	2
40	141-2-1219-39000	Panel Rear	1
41	141-2-1329-20200	Clear Meter	1
42	141-2-2629-04900	Holder Button	2
43	141-2-3169-32700	Metal Mount (Left)	1
44	141-2-3169-32800	Metal Mount (Right)	1
45	141-2-3689-15500	Plate Heat Sink	1
46	141-2-5649-29100	Belt Counter	1
47	141-2-8119-15100	Counter	1
48	141-2-8549-22200	Spring Lid Cassette	2
	ELECTRICAL PARTS LIST		
61	141-0-1939-18040	Main P.C.B. Assy	1
62	141-0-1939-18050	Power Amplifier P.C.B. Assy	1
63	141-0-1939-18060	Level Meter P.C.B. Assy	1
64	141-0-1939-18070	Function Switch P.C.B. Assy	1
65	141-0-1939-18080	Lamp P.C.B. Assy	1
66	141-0-1939-18090	Power Switch P.C.B Assy	1
67	141-0-1939-18100	Speaker Terminal P.C.B. Assy	1
68	141-0-1939-18110	Dolby NR P.C.B. Assy	1
69	141-0-1939-18120	Graphic EQ. P.C.B. Assy	1
70	⚠ 4-2432-00071	Power Code	1
71	⚠ 4-2512-33920	Power Trans	1
	SCREW & WASHER PARTS LIST		
81	131-2-4201-17800	Screw Ground	1
82	131-2-4201-27802	Screw (C Tite)	4
83	131-2-4201-25201	Screw, Brazier Hd. Tapping-B, +M3.0x8 Sems	4
84	141-2-4539-01100	Washer Nylon	1
85	101-3-1302-00211	Screw, Pan Hd., +M2.0x2	3
86	101-3-1303-00611	Screw, Pan Hd., +M3.0x6	2
87	143-3-1702-60611	Screw, Bind Hd. Tapping-B, +M2.6x6	2
88	143-3-1702-60811	Screw, Bind Hd. Tapping-B, +M2.6x8	2
89	143-3-1703-00618	Screw, Bind Hd. Tapping-B, +M3.0x6	9
90	103-3-1202-60811	Screw, Flat Hd. Tapping-2, +M2.6x8	6
91	103-3-1203-00811	Screw, Flat Hd. Tapping-2, +M3.0x8	4
92	143-3-1902-60811	Screw, Brazier Hd. Tapping-B, +M2.6x8	4
93	143-3-1903-00611	Screw, Brazier Hd. Tapping-B, +M3.0x6	15
94	143-3-1903-00811	Screw, Brazier Hd. Tapping-B, +M3.0x8	32
95	143-3-1903-01011	Screw, Brazier Hd. Tapping-B, +M3.0x10	5
96	143-3-1903-01411	Screw, Brazier Hd. Tapping-B, +M3.0x14	3
97	143-3-1903-01611	Screw, Brazier Hd. Tapping-B, +M3.0x16	8
C1	CC4-7-3500-ZG00C	Ceramic 0.047μF 50V +80,-20%	1

NOTES:

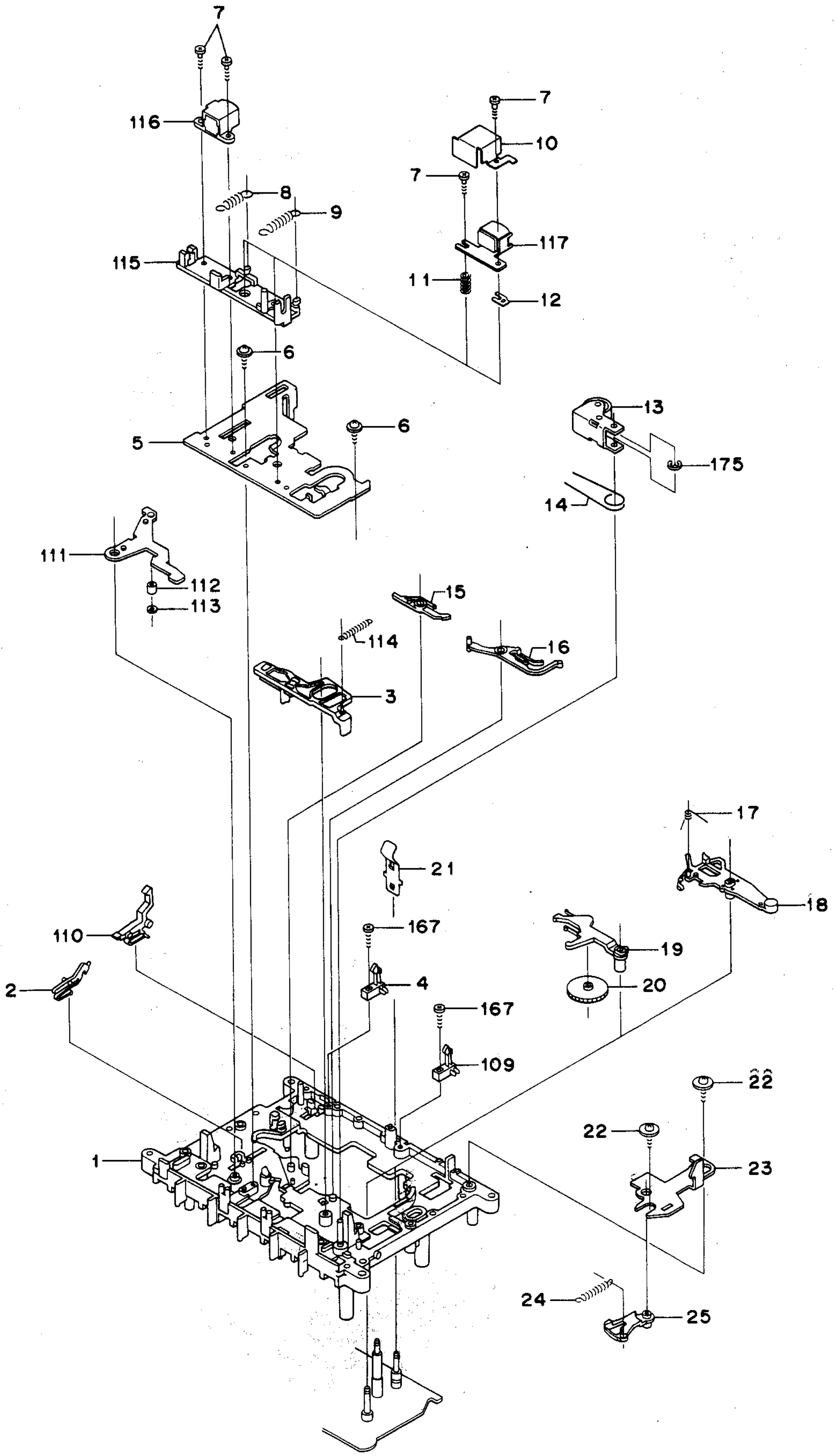
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

MECHANISM EXPLODED VIEW

(Deck 1 Side Chassis Top)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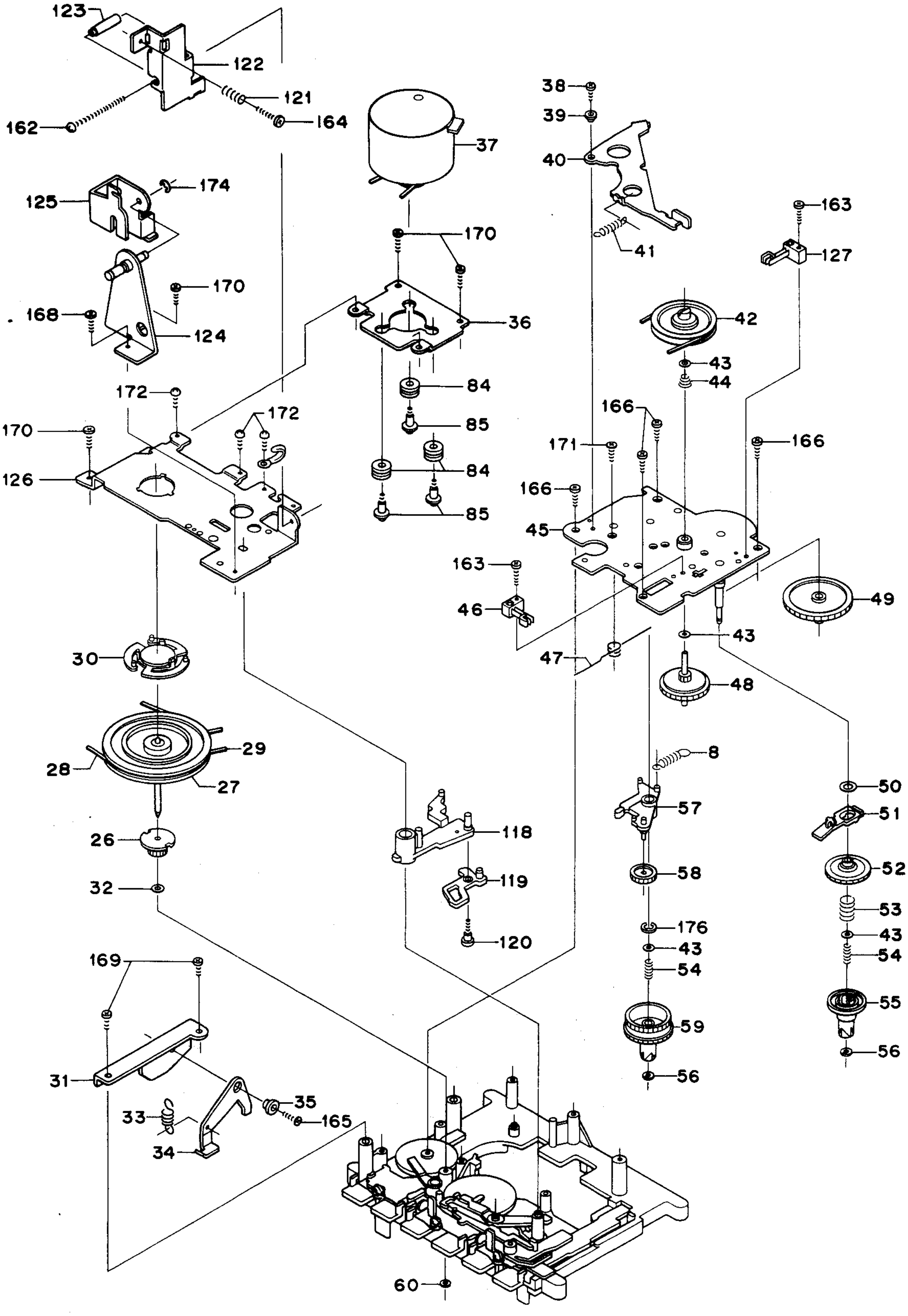
MECHANISM EXPLODED VIEW (Continued)

(Deck 1 Side Chassis Bottom 1)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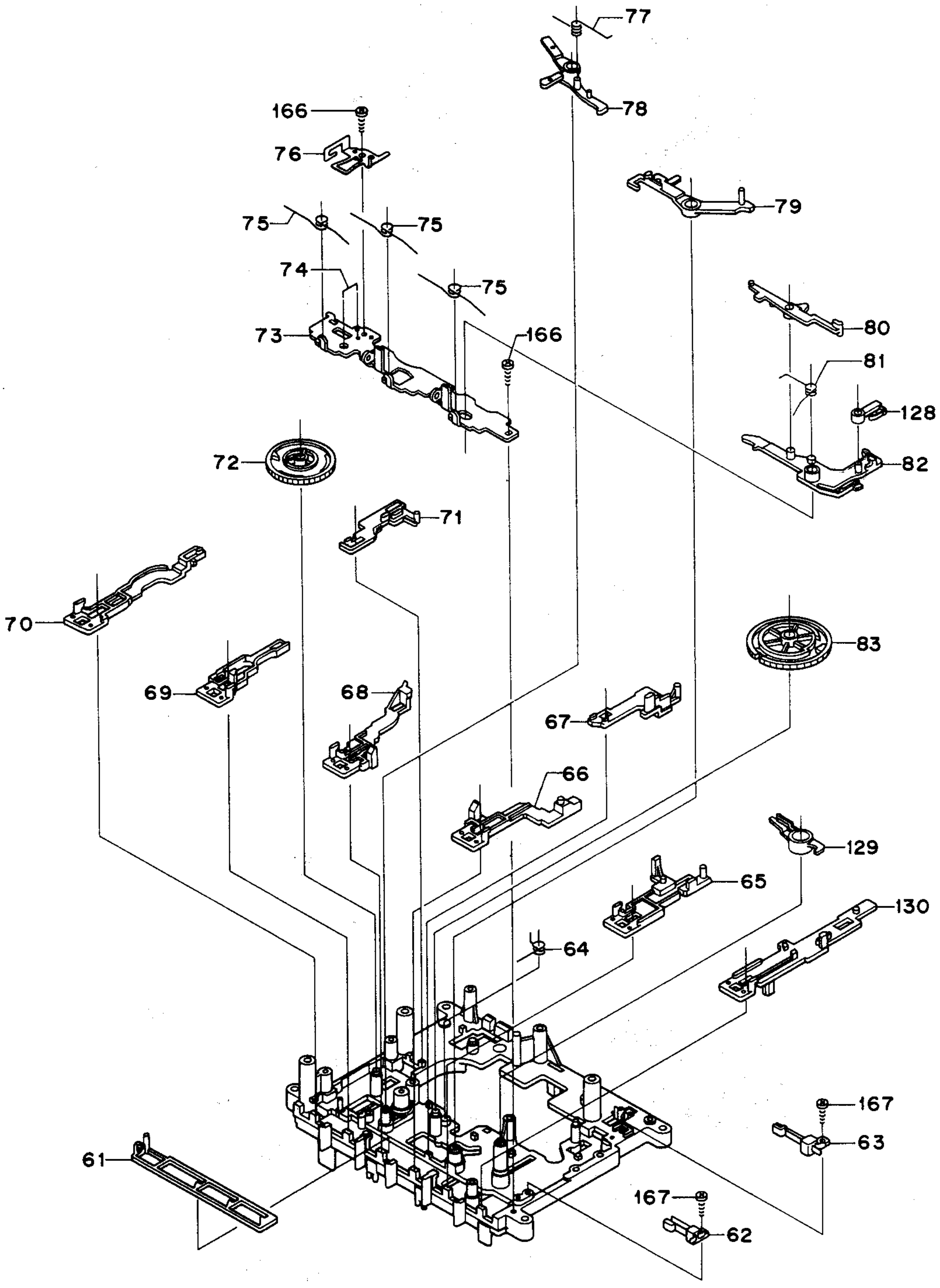
MECHANISM EXPLODED VIEW (Continued)
(Deck 1 Side Chassis Bottom 2)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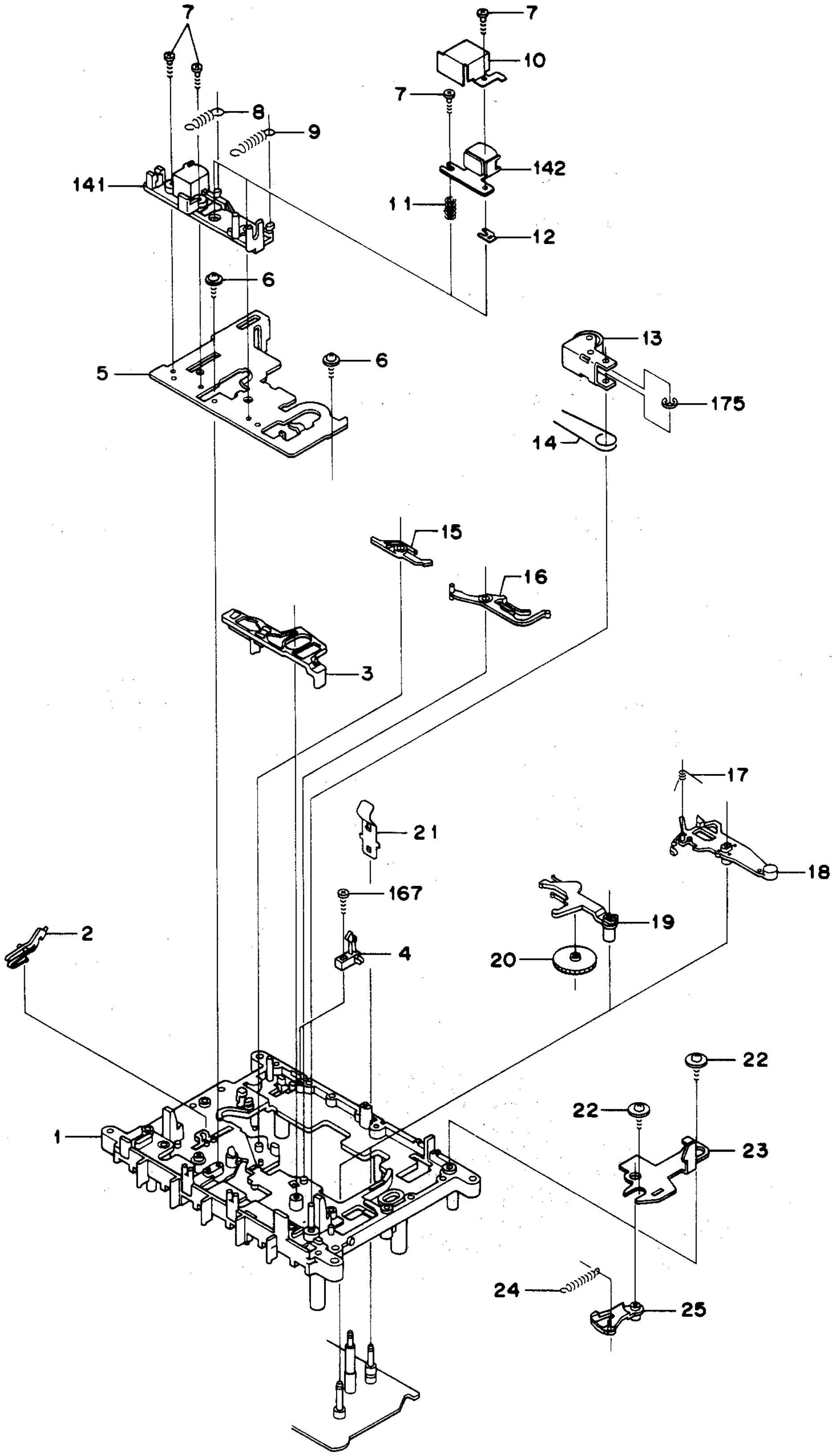
MECHANISM EXPLODED VIEW (Continued)

(Deck 2 Side Chassis Top)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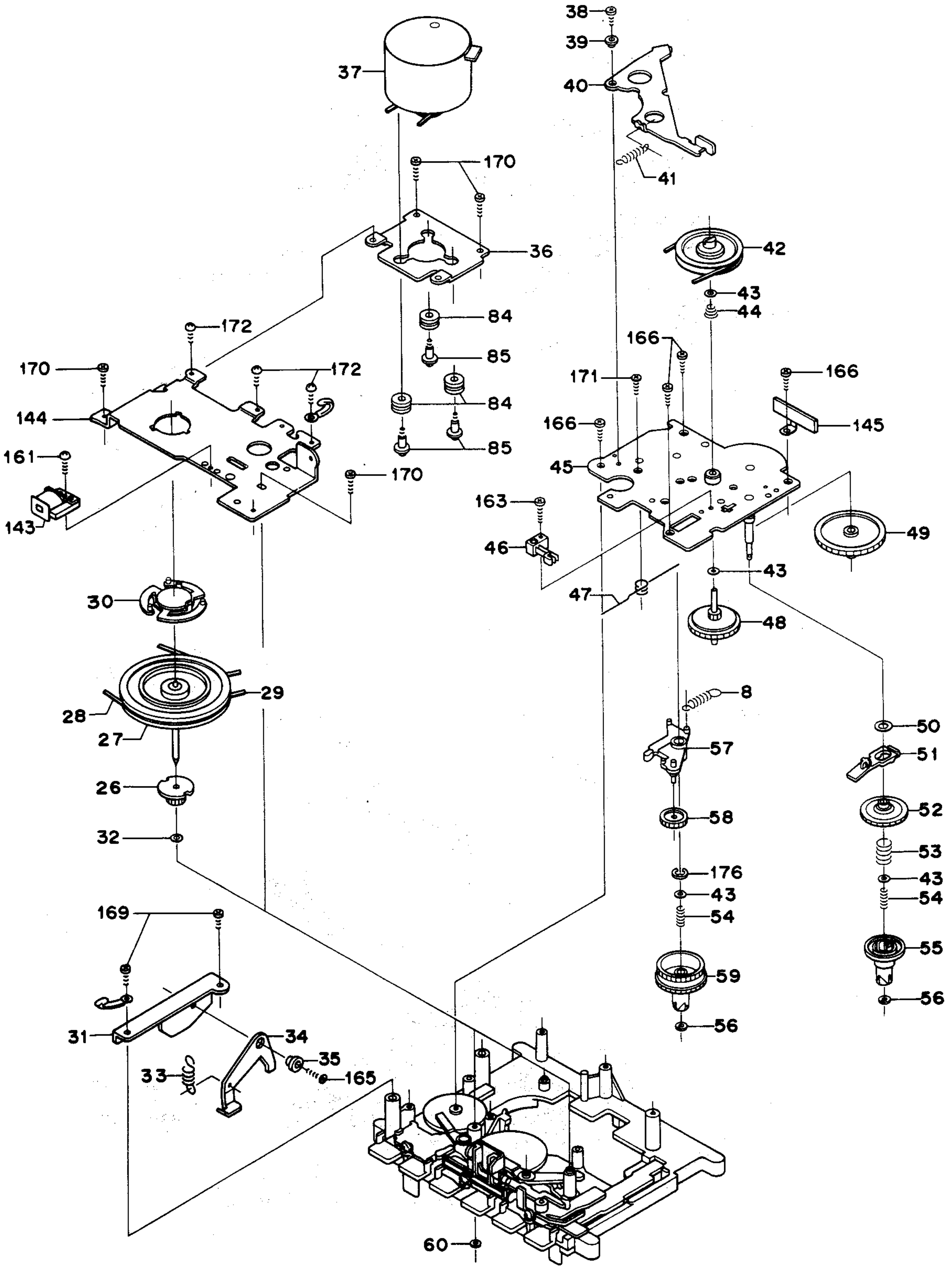
MECHANISM EXPLODED VIEW (Continued)

(Deck 2 Side Chassis Bottom 1)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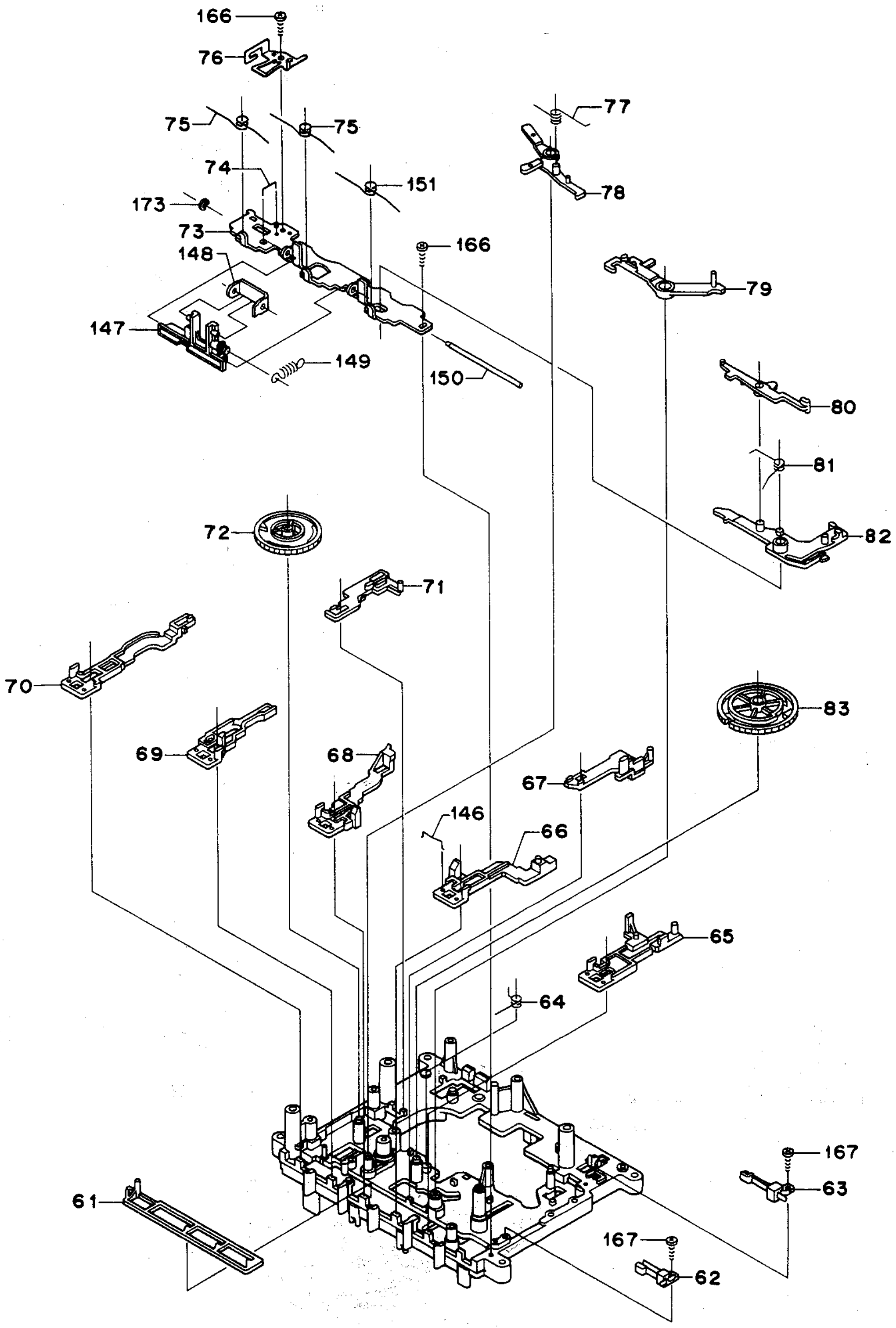
MECHANISM EXPLODED VIEW (Continued)

(Deck 2 Side Chassis Bottom 2)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MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	DECK 1 & DECK 2 SIMILAR PARTS		
	141-2-4729-04100	Lug	2
1	141-0-3119-21900	Chassis Assy	2
2	141-2-7419-81300	Lever Cassette	2
3	141-2-7419-80700	Lever Base Slide	2
4	4-2319-75860	Leaf Switch (CrO_2 Select) [S10]	1
4	4-2319-75860	Leaf Switch (CrO_2 Select) [S6]	1
5	141-2-7319-52801	Base Slide	2
6	141-2-4219-13201	Screw Washer	4
7	141-2-4219-30300	Screw, Bind Hd., +M2.0x6	8
8	141-2-8519-64900	Spring Arm Gear	4
9	141-2-8549-18700	Spring Slide Base	2
10	141-2-3229-41601	Shield Plate Head	2
11	141-2-8559-00201	Spring Head	2
12	141-2-3529-18102	Spacer Head	2
13	141-0-5419-02201	Pinchroller Assy	2
14	141-2-8529-12500	Spring Pinchroller	2
15	141-2-7149-05600	Brake Supply Reel	2
16	141-2-7149-05700	Brake Take-up Reel	2
17	141-2-8529-13200	Spring Sensor	2
18	141-2-7419-80100	Lever ASO	2
19	141-2-7439-30100	Arm Take-up	2
20	141-2-5519-45300	Gear Take-up	2
21	141-2-8539-47901	Spring Cassette	2
22	141-2-4219-05400	Screw Washer	4
23	141-2-7319-59300	Plate Eject	2
24	141-2-8549-18500	Spring Eject	2
25	141-2-7419-81100	Lever Stop Eject	2
26	141-2-5519-45200	Gear Flywheel	2
27	141-2-5219-14500	Flywheel Capstan	2
28	141-2-5649-22900	Belt Drive	2
29	141-2-5649-21200	Belt Wind	2
30	141-2-5739-06300	Thrust Flywheel	2
31	141-2-3519-72700	Bracket Eject	2
32	141-2-4539-20900	Washer	2
33	141-2-8519-63600	Spring Brake	2
34	141-2-7419-88900	Lever Eject	2
35	141-2-3529-16000	Spacer Lever Select	2
36	141-2-3519-79500	Bracket Motor	2
37	4-5279-71502	Motor [M2]	1
37	4-5279-71502	Motor [M1]	1
38	141-2-4219-03000	Screw	2
39	141-2-3529-36100	Spacer Lever	2
40	141-2-7419-82800	Lever Shut Off Switch	2
41	141-2-8519-61100	Spring Slide	2
42	141-2-5519-45700	Pulley Friction	2
43	141-2-4539-27601	Washer	8
44	141-2-8559-04700	Spring Pulley	2
45	141-0-3119-21800	Plate Chassis Assy	2
46	4-2319-74362	Leaf Switch (Motor) [S1]	1
46	4-2319-74362	Leaf Switch (Motor) [S7]	1
47	141-2-8529-12700	Spring Arm FF	2
48	141-0-5519-09600	Friction Assy	2
49	141-2-5519-45600	Gear ASO	2
50	141-2-4539-28001	Washer	2
51	141-2-7419-80200	Lever Rewind	2
52	141-2-5319-11600	Gear Reel Supply	2
53	141-2-8519-67900	Spring Reel	2
54	141-2-8559-00100	Spring Supply	4
55	141-2-5319-11700	Fin Reel Supply	2
56	141-2-4539-15700	Washer	4
57	141-2-7439-30000	Arm Fastwind	2
58	141-2-5519-45100	Gear Fastwind	2
59	141-2-5319-11500	Gear Reel Take-up	2
60	141-2-4539-17600	Washer	2
61	141-2-7319-53600	Plate Lock	2
62	4-2319-71863	Leaf Switch (FF/REW) [S2]	1
62	4-2319-71863	Leaf Switch (ASF)[S8]	1
63	4-2319-74550	Leaf Switch (Play) [S3]	1
63	4-2319-74550	Leaf Switch (Play Mute) [S9]	1
64	141-2-8529-12600	Spring Gear ACT Play	2
65	141-2-7319-53400	Rod Play	2
66	141-2-7319-53300	Rod Rewind	2
67	141-2-7319-52900	Rod Switch	2
68	141-2-7319-53200	Rod Fastwind	2
69	141-2-7319-53100	Rod Pause	2
70	141-2-7319-53000	Rod Stop	2
71	141-2-7319-54900	Rod ASO	2
72	141-2-5519-45800	Gear Actuate Pause	2
73	141-2-6139-14300	Frame Rod	2
74	141-2-8529-12800	Spring Pause Latch	2
75	141-2-8529-12401	Spring Rod FF	5
76	141-2-8539-46700	Spring Plate Lock	2
77	141-2-8529-13300	Spring Lever Pause	2
78	141-2-7419-80600	Lever Pause Start	2
79	141-2-7419-80500	Lever Play Start	2
80	141-2-7419-80800	Lever SW Cue Review	2
81	141-2-8529-14200	Spring Stop Record	2
82	141-2-7419-81000	Lever Stop Record	2
83	141-2-5519-45900	Gear Actuate Play	2
84	141-2-4459-11800	Cushion Motor	6
85	141-2-4219-30100	Screw	6
	DECK 1 Only		
C1	CD1-0-6250-0001V	Electrolytic 10μF 25V	1
CN3	4-2352-02011	Connector 11P Assy	1
CN5	4-2359-79478	Connector 6P Assy	1
CN16	4-2359-79996	Connector 2P Assy	1
109	4-2319-75860	Leaf Switch (Metal Select) [S5]	1
110	141-2-8419-11700	Interlock Lever	1
111	141-0-7419-36900	Lever Record Base Assy	1
112	141-2-8259-11100	Roller Record	1
113	141-2-4539-17500	Washer	1
114	141-2-8549-05500	Spring Lever Stop	1
115	141-2-3529-35900	Speacer Head	1
116	4-2429-71880	Erase Head [HD3]	1
117	4-2429-72350	R/P Head [HD1]	1
118	141-2-7419-81400	Arm Record	1
119	141-2-7419-81200	Lever Record Select	1
120	141-2-4219-23000	Screw	1
121	141-2-8519-34000	Spring Adzimuth	1
122	141-2-8419-13100	Lever R/P Switch	1
123	141-2-7539-23500	Post Lever R/P Switch	1
124	141-0-3519-23300	Bracket Record Assy	1
125	141-2-7419-89000	Lever Spring Record	1
126	141-2-3519-77400	Support Flywheel	1
127	4-2319-74360	Leaf Switch (OSC) [S4]	1
128	141-2-7419-80900	Lever Spring Stop Record	1
129	141-2-7419-80400	Lever Lock Record	1
130	141-2-7319-53500	Rod Record	1
	DECK 2 Only		
D1	212-5-4390-13510	Diode, DS 135 D	1
C2	CD1-0-6250-0001V	Electrolytic 10μF 25V	1
CN1	4-2352-02010	Connector 11P Assy	1
CN10	4-2352-01984	Connector 3P Assy	1

MECHANISM PARTS LIST (Continued)

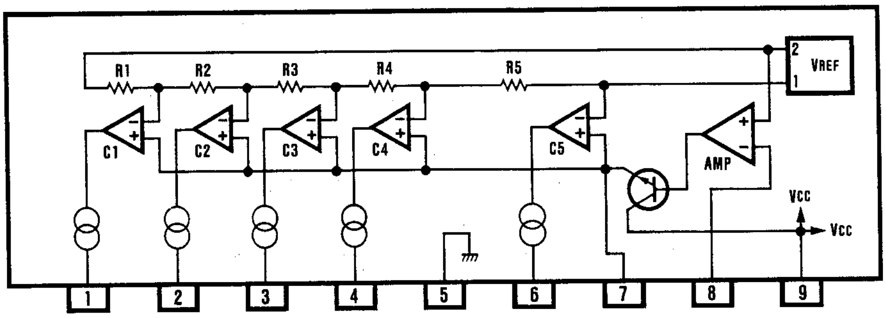
Ref. No.	Part No.	Description	Q'ty
	141-2-4729-04000	Lug	1
141	141-2-3529-46800	Spacer Head	1
142	4-2429-72340	Play Head [HD2]	1
143	4-2649-70621	Plunger	1
144	141-2-3519-77401	Support Flywheel	1
145	4-2372-00440	Terminal 1-2PT	1
146	141-2-8529-14300	Spring Seesaw	1
147	141-2-7419-81500	Lever Lock Button	1
148	141-2-7419-82700	Lever Plunger	1
149	141-2-8549-04400	Spring Interlock	1
150	141-2-5529-17000	Spindle Lever	1
151	141-2-8529-24300	Spring Rod Play	1
	SCREW & E RING		
161	101-3-1302-00811	Screw, Pan Hd., +M2.0x8	1
162	101-3-1302-62511	Screw, Pan Hd., +M2.6x25	1
163	101-3-1702-00811	Screw, Bind Hd., +M2.0x8	3
164	101-3-1703-01411	Screw, Bind Hd., +M3.0x14	1
165	101-3-1202-60618	Screw, Flat Hd., +M2.6x6	2
166	143-3-1702-00618	Screw, Bind Hd. Tapping-B, +M2.0x6	12
167	143-3-1702-00818	Screw, Bind Hd. Tapping-B, +M2.0x8	7
168	143-3-1702-60611	Screw, Bind Hd. Tapping-B, +M2.6x6	1
169	143-3-1702-60811	Screw, Bind Hd. Tapping-B, +M2.6x8	4
170	143-3-1702-61018	Screw, Bind Hd. Tapping-B, +M2.6x10	8
171	143-3-1202-00818	Screw, Flat Hd. Tapping-B, +M2.0x8	2
172	103-3-1302-60511	Screw, Pan Hd. Tapping-2, +M2.6x5	6
173	112-3-1301-20082	E Ring, M1.2	1
174	112-3-1301-50082	E Ring, M1.5	1
175	112-3-1302-00082	E Ring, M2.0	2
176	112-3-1303-00082	E Ring, M3.0	2

NOTES:

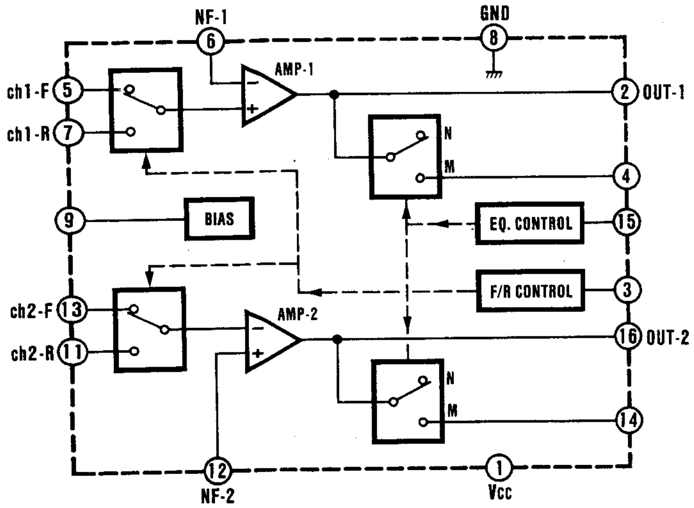
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

IC EQUIVALENT CIRCUIT & BLOCK DIAGRAM

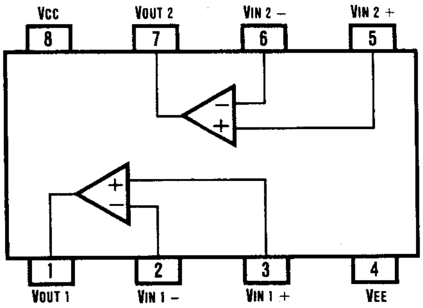
LED METER IC TA 7366 P


R1
R2
R3
R4
R5
2
1
VREF
C1
C2
C3
C4
C5
AMP
Vcc
Vcc
1
2
3
4
5
6
7
8
9

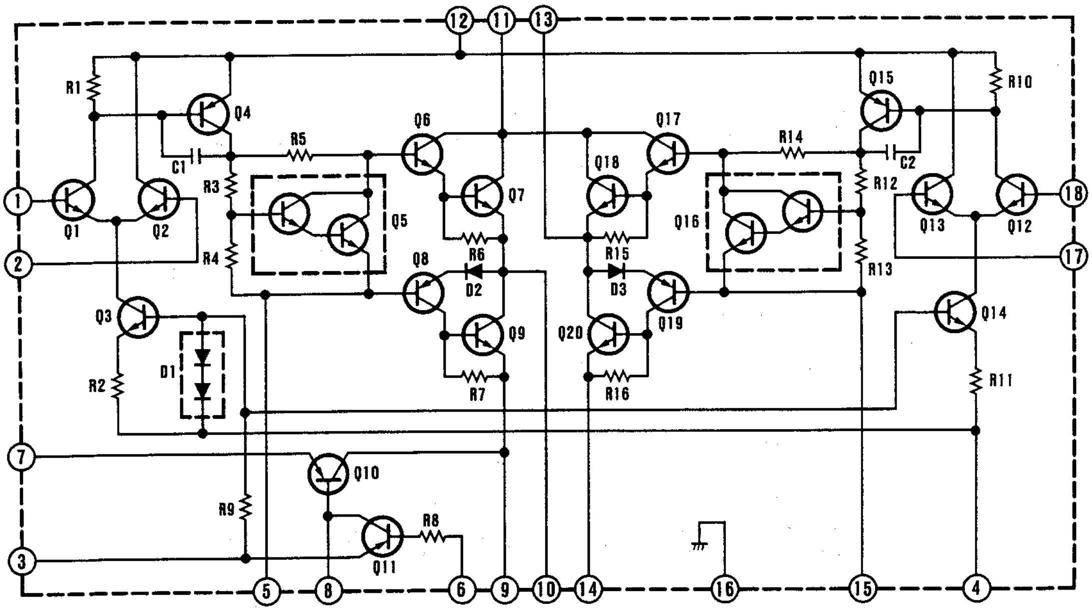
PRE AMPLIFIER IC TA 7405 P


NF-1
6
GND
8
AMP-1
ch1-F 5
ch1-R 7
2 OUT-1
N
M
4
9
BIAS
EQ. CONTROL
15
F/R CONTROL
3
ch2-F 13
ch2-R 11
AMP-2
16 OUT-2
N
M
14
12
NF-2
1
Vcc

PHONO EQ/PRE AMP IC LA 6462 D

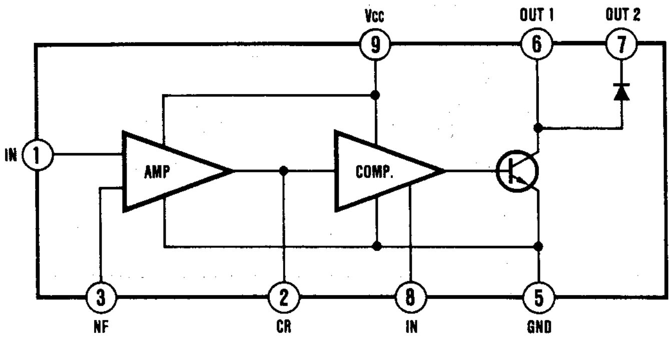

Vcc
VOUT 2
VIN 2 −
VIN 2 +
8
7
6
5
1
2
3
4
VOUT 1
VIN 1 −
VIN 1 +
VEE

POWER AMPLIFIER IC STK 4152 MKⅡ

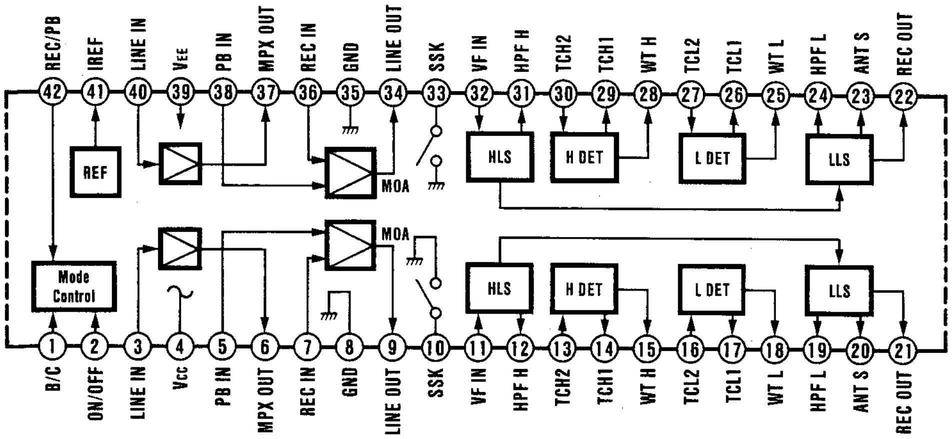

12
11
13
R1
Q4
C1
R5
R3
R4
Q1
Q2
Q3
R2
D1
Q5
Q6
Q7
R6
Q8
D2
Q9
R7
Q10
R9
R8
Q11
Q17
Q18
R15
D3
Q19
Q20
R16
Q16
R14
C2
R12
R13
Q15
R10
Q13
Q12
Q14
R11
1
2
7
3
18
17
5
8
6
9
10
14
16
15
4

IC EQUIVALENT CIRCUIT & BLOCK DIAGRAM(Continued)

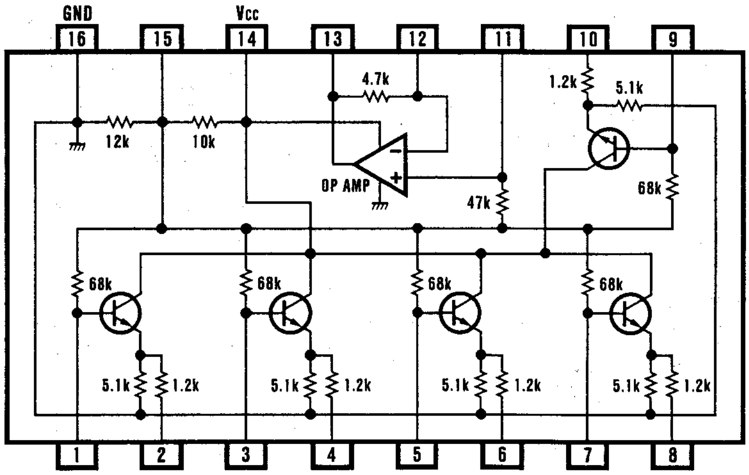
ASF SENSOR IC LA 2000


Vcc
OUT 1
OUT 2
9
6
7
IN
1
AMP
COMP.
3
2
8
5
NF
CR
IN
GND

DOLBY NR IC CX-20187


REC/PB
IREF
LINE IN
VEE
PB IN
MPX OUT
REC IN
GND
LINE OUT
SSK
VF IN
HPF H
TCH2
TCH1
WT H
TCL2
TCL1
WT L
HPF L
ANT S
REC OUT
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
REF
MOA
HLS
H DET
L DET
LLS
Mode Control
MOA
HLS
H DET
L DET
LLS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
B/C
ON/OFF
LINE IN
Vcc
PB IN
MPX OUT
REC IN
GND
LINE OUT
SSK
VF IN
HPF H
TCH2
TCH1
WT H
TCL2
TCL1
WT L
HPF L
ANT S
REC OUT

GRAPHIC EQUALIZER AMP IC LA 3600


GND
Vcc
16
15
14
13
12
11
10
9
4.7k
1.2k
5.1k
12k
10k
OP AMP
47k
68k
68k
68k
68k
68k
5.1k
1.2k
5.1k
1.2k
5.1k
1.2k
5.1k
1.2k
1
2
3
4
5
6
7
8

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description				Q'ty
	MAIN P.C.B. ASSY					
61	141-0-1939-18040	Main P.C.B. Assy				1
	4-2262-29790	Main P.C.B.				1
P101	4-2229-76565	Potentiometer (B-200Ω)				1
P102	4-2229-76563	Potentiometer (B-200kΩ)				1
P201	4-2229-76565	Potentiometer (B-200Ω)				1
P202	4-2229-76563	Potentiometer (B-200kΩ)				1
P301	4-2229-76565	Potentiometer (B-200Ω)				1
P302	4-2229-76565	Potentiometer (B-200Ω)				1
SW1	4-2319-78430	Slide Switch 6				1
F101	4-2529-70270	Bias Trap				1
F201	4-2529-70270	Bias Trap				1
L101	4-2552-00610	AF Coil				1
L102	4-2552-00140	AF Coil				1
L201	4-2552-00610	AF Coil				1
L202	4-2552-00140	AF Coil				1
L301	4-2589-72940	Bias OSC Coil				1
CN1	4-2369-75730	Plug 11P				1
CN2	4-2369-74300	Plug 10P				1
CN3	4-2369-75730	Plug 11P				1
CN5	4-2362-00850	Plug 6P				1
CN6	4-2369-73160	Plug 6P				1
CN7	4-2369-75950	Plug 5P				1
CN10	4-2369-73130	Plug 3P				1
CN11	4-2369-73140	Plug 4P				1
CN12	4-2369-75330	Plug 4P				1
CN16	4-2362-00770	Plug 2P				1
CN18	4-2369-73130	Plug 3P				1
	111-2-6220-11100	Wire Wrap Terminal				9
	131-2-6201-28000	Plate Heat Sink				1
	131-2-6201-35200	Plate Heat Sink				1
	CAPACITORS					
C101	CD4-7-5250-0KB1V	Electrolytic	4.7μF	25V		1
C102	CC2-7-1500-KD00C	Ceramic	270pF	50V	±10%	1
C103	CC3-9-1500-KD00C	Ceramic	390pF	50V	±10%	1
C104	CD4-7-5250-0KB1V	Electrolytic	4.7μF	25V		1
C105	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C106	CM1-8-3500-K00SV	Mylar	0.018μF	50V	±10%	1
C107	CD1-0-763A-0001V	Electrolytic	100μF	6.3V		1
C108	CM1-5-3500-K00SV	Mylar	0.015μF	50V	±10%	1
C109	CD4-7-4500-0001V	Electrolytic	0.47μF	50V		1
C110	CD1-0-5500-0001V	Electrolytic	1μF	50V		1
C111	CD1-0-5500-0001V	Electrolytic	1μF	50V		1
C112	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C113	CM1-2-3500-K00SV	Mylar	0.012μF	50V	±10%	1
C114	CM6-8-2500-K00SV	Mylar	0.0068μF	50V	±10%	1
C115	CM2-7-3500-K00SV	Mylar	0.027μF	50V	±10%	1
C116	CM2-7-3500-K00SV	Mylar	0.027μF	50V	±10%	1
C117	CC4-7-1500-KD00C	Ceramic	470pF	50V	±10%	1
C118	CC1-0-1500-KD00C	Ceramic	100pF	50V	±10%	1
C119	CC6-8-1500-KD00C	Ceramic	680pF	50V	±10%	1
C201	CD4-7-5250-0KB1V	Electrolytic	4.7μF	25V		1
C202	CC2-7-1500-KD00C	Ceramic	270pF	50V	±10%	1
C203	CC3-9-1500-KD00C	Ceramic	390pF	50V	±10%	1
C204	CD4-7-5250-0KB1V	Electrolytic	4.7μF	25V		1
C205	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C206	CM1-8-3500-K00SV	Mylar	0.018μF	50V	±10%	1
C207	CD1-0-763A-0001V	Electrolytic	100μF	6.3V		1
C208	CM1-5-3500-K00SV	Mylar	0.015μF	50V	±10%	1
C209	CD4-7-4500-0001V	Electrolytic	0.47μF	50V		1
C210	CD1-0-5500-0001V	Electrolytic	1μF	50V		1
C211	CD1-0-5500-0001V	Electrolytic	1μF	50V		1
C212	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C213	CM1-2-3500-K00SV	Mylar	0.012μF	50V	±10%	1
C214	CM6-8-2500-K00SV	Mylar	0.0068μF	50V	±10%	1
C215	CM2-7-3500-K00SV	Mylar	0.027μF	50V	±10%	1
C216	CM2-7-3500-K00SV	Mylar	0.027μF	50V	±10%	1
C217	CC4-7-1500-KD00C	Ceramic	470pF	50V	±10%	1
C218	CC1-0-1500-KD00C	Ceramic	100pF	50V	±10%	1
C219	CC6-8-1500-KD00C	Ceramic	680pF	50V	±10%	1
C301	CP1-2-3101-J000V	Polypropylen	0.012μF	100V	±5%	1
C302	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C303	CM2-2-3500-K00SV	Mylar	0.022μF	50V	±10%	1
C304	CM1-0-3500-K00SV	Mylar	0.01μF	50V	±10%	1
C305	CD1-0-7160-0006V	Electrolytic	100μF	16V		1
C306	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C307	CD1-0-6160-0001V	Electrolytic	10μF	16V		1
C308	CD4-7-6250-0001V	Electrolytic	47μF	25V		1
C309	CD2-2-7160-0006V	Electrolytic	220μF	16V		1
C310	CD1-0-6500-0001V	Electrolytic	10μF	50V		1
C311	CD4-7-663A-0001V	Electrolytic	47μF	6.3V		1
C312	CD1-0-763A-0001V	Electrolytic	100μF	6.3V		1
C313	CD4-7-663A-0001V	Electrolytic	47μF	6.3V		1
C314	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C315	CD4-7-6160-0001V	Electrolytic	47μF	16V		1
C316	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C317	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C318	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C319	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C320	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C321	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C322	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C323	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C324	CC4-7-3151-ZG00C	Ceramic	0.047μF	150V	+80,-20%	1
C325	CD4-7-6630-0001V	Electrolytic	47μF	63V		1
C326	CD3-3-8500-0005V	Electrolytic	3300μF	50V		1
C327	CD3-3-8500-0005V	Electrolytic	3300μF	50V		1
C328	CD1-0-7350-0006V	Electrolytic	100μF	35V		1
C329	CD1-0-7350-0006V	Electrolytic	100μF	35V		1
C330	CD1-0-7250-0006V	Electrolytic	100μF	25V		1
C331	CD1-0-7250-0006V	Electrolytic	100μF	25V		1
C332	CD2-2-8250-0005V	Electrolytic	2200μF	25V		1
C333	CD1-0-7250-0006V	Electrolytic	100μF	25V		1
C334	CD1-0-7250-0006V	Electrolytic	100μF	25V		1
C335	CD1-0-7160-0006V	Electrolytic	100μF	16V		1
C336	CD4-7-6160-0001V	Electrolytic	47μF	16V		1
C337	CD4-7-6630-0001V	Electrolytic	47μF	63V		1
C338	CD2-2-6160-0001V	Electrolytic	22μF	16V		1
C339	CD4-7-4500-0001V	Electrolytic	0.47μF	50V		1
	SEMICONDUCTORS					
D301	202-5-2620-03010	Brige Diode, BA 30C				1
D302	DGG--W02----	Diode, W 02				1
D303	202-5-2500-13543	Diode, DS 135 D				1
D304	212-5-7310-00102	Diode, GMB 01				1
D305	202-5-3210-18011	Zener Diode, GZA 18X				1
D306	202-5-3210-18011	Zener Diode, GZA 18X				1
D307	202-5-3210-12013	Zener Diode, GZA 12Z				1
D308	202-5-3210-15013	Zener Diode, GZA 15Z				1
D309	212-5-7310-00102	Diode, GMB 01				1
D310	212-5-7310-00102	Diode, GMB 01				1
D311	212-5-7310-00102	Diode, GMB 01				1
D312	212-5-7310-00102	Diode, GMB 01				1
D313	212-5-7310-00102	Diode, GMB 01				1
D314	212-5-7310-00102	Diode, GMB 01				1
D315	212-5-7310-00102	Diode, GMB 01				1
D316	212-5-7310-00102	Diode, GMB 01				1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D317	212-5-7310-00102	Diode, GMB 01	1
D318	212-5-7310-00102	Diode, GMB 01	1
D319	212-5-7310-00102	Diode, GMB 01	1
D320	212-5-7310-00102	Diode, GMB 01	1
D321	212-5-7310-00102	Diode, GMB 01	1
D322	202-5-3210-10013	Zener Diode, GZA 10Z	1
IC1	4-2069-74360	IC, TA 7405 P	1
Q101	203-5-5000-53660	Transistor, 2SC 536	1
Q102	203-5-5000-53660	Transistor, 2SC 536	1
Q103	203-5-5000-53660	Transistor, 2SC 536	1
Q104	203-5-5000-53660	Transistor, 2SC 536	1
Q105	203-5-5000-53660	Transistor, 2SC 536	1
Q106	203-5-5000-53660	Transistor, 2SC 536	1
Q107	203-5-5000-53660	Transistor, 2SC 536	1
Q108	203-5-5083-33165	Transistor, 2SC 3331	1
Q201	203-5-5000-53660	Transistor, 2SC 536	1
Q202	203-5-5000-53660	Transistor, 2SC 536	1
Q203	203-5-5000-53660	Transistor, 2SC 536	1
Q204	203-5-5000-53660	Transistor, 2SC 536	1
Q205	203-5-5000-53660	Transistor, 2SC 536	1
Q206	203-5-5000-53660	Transistor, 2SC 536	1
Q207	203-5-5000-53660	Transistor, 2SC 536	1
Q208	203-5-5083-33165	Transistor, 2SC 3331	1
Q301	203-5-7252-27451	Transistor, 2SC 2274	1
Q302	203-5-7230-60860	Transistor, 2SA 608	1
Q303	203-5-5000-53660	Transistor, 2SC 536	1
Q304	203-5-5000-53660	Transistor, 2SC 536	1
Q305	203-5-5000-53660	Transistor, 2SC 536	1
Q306	203-5-5000-53660	Transistor, 2SC 536	1
Q307	203-5-5000-53660	Transistor, 2SC 536	1
Q308	203-5-5000-53660	Transistor, 2SC 536	1
Q309	203-5-5000-53660	Transistor, 2SC 536	1
Q310	203-5-5000-53660	Transistor, 2SC 536	1
Q311	203-5-5000-53660	Transistor, 2SC 536	1
Q312	203-5-5000-53660	Transistor, 2SC 536	1
Q313	203-5-5000-53660	Transistor, 2SC 536	1
Q314	203-5-5000-53660	Transistor, 2SC 536	1
Q315	203-5-7230-60860	Transistor, 2SA 608	1
Q316	203-5-7230-60860	Transistor, 2SA 608	1
Q317	203-5-1313-40010	Transistor, 2SC 3400	1
Q318	203-5-5000-53660	Transistor, 2SC 536	1
Q319	203-5-5000-53660	Transistor, 2SC 536	1
Q320	203-5-5000-53660	Transistor, 2SC 536	1
Q321	203-5-5000-53660	Transistor, 2SC 536	1
Q322	203-5-5000-53660	Transistor, 2SC 536	1
Q323	203-5-4921-01274	Transistor, 2SD 1012	1
Q324	203-5-4921-01274	Transistor, 2SD 1012	1
Q325	203-5-4921-01274	Transistor, 2SD 1012	1
Q326	203-5-4921-01274	Transistor, 2SD 1012	1
Q327	203-5-4921-01274	Transistor, 2SD 1012	1
Q328	203-5-5000-53660	Transistor, 2SC 536	1
Q330	203-5-5851-66680	Transistor, 2SD 1666	1
Q331	203-5-8501-13350	Transistor, 2SB 1133	1
Q332	203-5-5851-66680	Transistor, 2SD 1666	1
Q333	203-5-5851-66680	Transistor, 2SD 1666	1
Q334	203-5-1313-40010	Transistor, 2SC 3400	1
Q335	203-5-1313-40010	Transistor, 2SC 3400	1
Q336	203-5-1313-40010	Transistor, 2SC 3400	1

RESISTORS

Ref. No.	Part No.	Description	Q'ty
R101	401 024 7707	CARBON 100K JA 1/6W	1
R102	401 024 7707	CARBON 100K JA 1/6W	1
R103	401 024 7004	CARBON 1K JA 1/6W	1
R104	401 027 8602	CARBON 8.2K JA 1/6W	1
R105	401 027 5502	CARBON 6.8K JA 1/6W	1
R106	401 026 1604	CARBON 270K JA 1/6W	1
R107	401 024 7004	CARBON 1K JA 1/6W	1
R108	401 016 3809	CARBON 2.2K JA 1/4W	1
R109	401 025 7805	CARBON 2.2K JA 1/6W	1
R110	401 025 8208	CARBON 22K JA 1/6W	1
R111	401 026 4605	CARBON 33K JA 1/6W	1
R112	401 024 7004	CARBON 1K JA 1/6W	1
R113	401 025 7805	CARBON 2.2K JA 1/6W	1
R114	401 025 8703	CARBON 220K JA 1/6W	1
R115	401 026 4605	CARBON 33K JA 1/6W	1
R116	401 024 7400	CARBON 10K JA 1/6W	1
R117	401 024 9305	CARBON 1.2K JA 1/6W	1
R118	401 025 8703	CARBON 220K JA 1/6W	1
R119	401 026 0607	CARBON 270 JA 1/6W	1
R120	401 024 9008	CARBON 120 JA 1/6W	1
R121	401 026 4308	CARBON 3.3K JA 1/6W	1
R122	401 026 9907	CARBON 4.7K JA 1/6W	1
R123	401 026 9907	CARBON 4.7K JA 1/6W	1
R124	401 025 4200	CARBON 1.8K JA 1/6W	1
R125	401 018 4903	CARBON 33K JA 1/4W	1
R126	401 012 7009	CARBON 10K JA 1/4W	1
R127	401 026 4605	CARBON 33K JA 1/6W	1
R128	401 024 7004	CARBON 1K JA 1/6W	1
R129	401 013 6407	CARBON 12K JA 1/4W	1
R130	401 020 2904	CARBON 47K JA 1/4W	1
R131	401 025 8208	CARBON 22K JA 1/6W	1
R201	401 024 7707	CARBON 100K JA 1/6W	1
R202	401 024 7707	CARBON 100K JA 1/6W	1
R203	401 024 7004	CARBON 1K JA 1/6W	1
R204	401 027 8602	CARBON 8.2K JA 1/6W	1
R205	401 027 5502	CARBON 6.8K JA 1/6W	1
R206	401 026 1604	CARBON 270K JA 1/6W	1
R207	401 024 7004	CARBON 1K JA 1/6W	1
R208	401 016 3809	CARBON 2.2K JA 1/4W	1
R209	401 025 7805	CARBON 2.2K JA 1/6W	1
R210	401 025 8208	CARBON 22K JA 1/6W	1
R211	401 026 4605	CARBON 33K JA 1/6W	1
R212	401 012 5708	CARBON 1K JA 1/4W	1
R213	401 025 7805	CARBON 2.2K JA 1/6W	1
R214	401 025 8703	CARBON 220K JA 1/6W	1
R215	401 026 4605	CARBON 33K JA 1/6W	1
R216	401 024 7400	CARBON 10K JA 1/6W	1
R217	401 024 9305	CARBON 1.2K JA 1/6W	1
R218	401 025 8703	CARBON 220K JA 1/6W	1
R219	401 026 0607	CARBON 270 JA 1/6W	1
R220	401 024 9008	CARBON 120 JA 1/6W	1
R221	401 026 4308	CARBON 3.3K JA 1/6W	1
R222	401 026 9907	CARBON 4.7K JA 1/6W	1
R223	401 026 9907	CARBON 4.7K JA 1/6W	1
R224	401 025 4200	CARBON 1.8K JA 1/6W	1
R225	401 018 4903	CARBON 33K JA 1/4W	1
R226	401 012 7009	CARBON 10K JA 1/4W	1
R227	401 026 4605	CARBON 33K JA 1/6W	1
R228	401 024 7004	CARBON 1K JA 1/6W	1
R229	401 013 6407	CARBON 12K JA 1/4W	1
R230	401 027 0309	CARBON 47K JA 1/6W	1
R231	401 025 8208	CARBON 22K JA 1/6W	1
R301	401 012 3407	CARBON 10 JA 1/4W	1
R302	401 027 5007	CARBON 68 JA 1/6W	1
R303	401 024 7400	CARBON 10K JA 1/6W	1
R304	401 024 7400	CARBON 10K JA 1/6W	1
R305	401 026 4605	CARBON 33K JA 1/6W	1
R306	401 026 4308	CARBON 3.3K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R307	401 012 2905	CARBON 10 JA 1/4W	1
R308	401 026 9600	CARBON 470 JA 1/6W	1
R309	401 026 3905	CARBON 330 JA 1/6W	1
R310	401 024 9701	CARBON 12K JA 1/6W	1
R311	401 026 4605	CARBON 33K JA 1/6W	1
R312	401 026 4605	CARBON 33K JA 1/6W	1
R313	401 024 7707	CARBON 100K JA 1/6W	1
R314	401 012 8105	CARBON 100K JA 1/4W	1
R315	401 025 4606	CARBON 18K JA 1/6W	1
R316	401 026 4605	CARBON 33K JA 1/6W	1
R317	401 026 4605	CARBON 33K JA 1/6W	1
R318	401 012 5401	CARBON 1K JA 1/4W	1
R319	401 027 0309	CARBON 47K JA 1/6W	1
R320	401 024 7707	CARBON 100K JA 1/6W	1
R321	401 027 0309	CARBON 47K JA 1/6W	1
R322	401 025 8208	CARBON 22K JA 1/6W	1
R323	401 026 4605	CARBON 33K JA 1/6W	1
R324	401 024 7707	CARBON 100K JA 1/6W	1
R325	401 018 2404	CARBON 330 JA 1/4W	1
R326	401 027 2600	CARBON 5.6K JA 1/6W	1
R327	401 026 4308	CARBON 3.3K JA 1/6W	1
R328	401 025 2305	CARBON 150K JA 1/6W	1
R329	401 025 8208	CARBON 22K JA 1/6W	1
R330	401 026 1000	CARBON 2.7K JA 1/6W	1
R331	401 025 8208	CARBON 22K JA 1/6W	1
R332	401 025 8208	CARBON 22K JA 1/6W	1
R333	401 025 8208	CARBON 22K JA 1/6W	1
R334	401 025 8208	CARBON 22K JA 1/6W	1
R335	401 027 0309	CARBON 47K JA 1/6W	1
R336	401 025 8208	CARBON 22K JA 1/6W	1
R337	401 025 8208	CARBON 22K JA 1/6W	1
R338	401 027 0309	CARBON 47K JA 1/6W	1
R339	401 014 6109	CARBON 150K JA 1/4W	1
R340	401 026 4605	CARBON 33K JA 1/6W	1
R341	401 026 4605	CARBON 33K JA 1/6W	1
R342	401 023 2802	CARBON 8.2K JA 1/4W	1
R344	401 027 8602	CARBON 8.2K JA 1/6W	1
R345	401 026 1000	CARBON 2.7K JA 1/6W	1
R346	401 026 1000	CARBON 2.7K JA 1/6W	1
R347	401 024 6700	CARBON 100 JA 1/6W	1
R348	401 026 4308	CARBON 3.3K JA 1/6W	1
R349	401 016 3809	CARBON 2.2K JA 1/4W	1
R350	401 024 7400	CARBON 10K JA 1/6W	1
R351	401 026 4308	CARBON 3.3K JA 1/6W	1
R352	401 026 4308	CARBON 3.3K JA 1/6W	1
R353	401 026 4308	CARBON 3.3K JA 1/6W	1
R354	401 025 1605	CARBON 1.5K JA 1/6W	1
R355	401 018 3807	CARBON 3.3K JA 1/4W	1
R356	401 025 8208	CARBON 22K JA 1/6W	1
R357	401 017 2801	CARBON 27K JA 1/4W	1
R358	401 017 2801	CARBON 27K JA 1/4W	1
R359	401 026 6609	CARBON 390 JA 1/6W	1
R360	401 024 6700	CARBON 100 JA 1/6W	1
R361	4-2219-71431	LT Resistor 820 OHM	1
R362	401 026 6609	CARBON 390 JA 1/6W	1
R363	401 024 6700	CARBON 100 JA 1/6W	1
R364	4-2219-71431	LT Resistor 820 OHM	1
R365	401 016 5803	CARBON 220K JA 1/4W	1
R366	401 025 2305	CARBON 150K JA 1/6W	1
R367	401 026 7408	CARBON 39K JA 1/6W	1
R368	401 059 4009	OXIDE-MT 1.5K JB 1W	1
R369	401 024 7400	CARBON 10K JA 1/6W	1
R370	401 072 7506	OXIDE-MT 47 JB 3W	1
R371	401 071 1208	OXIDE-MT 150 JB 3W	1

Ref. No.	Part No.	Description	Q'ty
R374	401 021 1500	CARBON 560 JA 1/4W	1
R375	401 023 1409	CARBON 820 JA 1/4W	1
R376	401 016 2208	CARBON 220 JA 1/4W	1
R377	401 020 0306	CARBON 470 JA 1/4W	1
R378	401 018 2404	CARBON 330 JA 1/4W	1
R379	401 022 1509	CARBON 680 JA 1/4W	1

POWER AMPLIFIER P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
62	141-0-1939-18050	Power Amplifier P.C.B. Assy	1
	4-2262-29800	Power Amplifier P.C.B.	1
L101	4-2532-00420	RF Filter	1
L201	4-2532-00420	RF Filter	1
CA2	4-2359-78725	Connector 10P Assy	1
CN4	4-2369-73690	Plug 9P	1
CN14	4-2369-73970	Plug 3P	1
CN15	4-2369-73140	Plug 4P	1
JJ8	4-2439-73060	Wire 4 Parallel	1
	4-2359-78652	Pin Jack 6P W/shield	1

CAPACITORS

Ref. No.	Part No.	Description				Q'ty
C101	CC4-7-3500-ZG00C	Ceramic	0.047μF	50V	+80,-20%	1
C102	CD4-7-6500-0001V	Electrolytic	47μF	50V		1
C103	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C104	CD1-0-7100-0001V	Electrolytic	100μF	10V		1
C106	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C107	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C108	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C109	CD1-0-763A-0001V	Electrolytic	100μF	6.3V		1
C110	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C111	CC3-3-1500-KD00C	Ceramic	330pF	50V	±10%	1
C112	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C113	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C114	CC2-2-1500-KE00C	Ceramic	220pF	50V	±10%	1
C115	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C116	CD4-7-5250-0001V	Electrolytic	4.7μF	25V		1
C117	CC3-3-1500-KD00C	Ceramic	330pF	50V	±10%	1
C118	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C119	CD4-7-663A-0001V	Electrolytic	47μF	6.3V		1
C120	CM1-8-3500-J00SV	Mylar	0.018μF	50V	±5%	1
C121	CM4-7-2500-J00SV	Mylar	0.0047μF	50V	±5%	1
C122	CD1-0-5500-0001V	Electrolytic	1μF	50V		1
C123	CC2-2-1500-KE00C	Ceramic	220pF	50V	±10%	1
C124	CC2-2-1500-KE00C	Ceramic	220pF	50V	±10%	1
C125	CC2-0-A500-CCK0C	Ceramic	2pF	50V	±0.2%	1
C201	CC4-7-3500-ZG00C	Ceramic	0.047μF	50V	+80,-20%	1
C202	CD4-7-6500-0001V	Electrolytic	47μF	50V		1
C203	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C204	CD1-0-7100-0001V	Electrolytic	100μF	10V		1
C206	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C207	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C208	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C209	CD1-0-763A-0001V	Electrolytic	100μF	6.3V		1
C210	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C211	CC3-3-1500-KD00C	Ceramic	330pF	50V	±10%	1
C212	CD4-7-5500-0001V	Electrolytic	4.7μF	50V		1
C213	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C214	CC2-2-1500-KE00C	Ceramic	220pF	50V	±10%	1
C215	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C216	CD4-7-5250-0001V	Electrolytic	4.7μF	25V		1
C217	CC3-3-1500-KD00C	Ceramic	330pF	50V	±10%	1
C218	CC2-2-1500-KD00C	Ceramic	220pF	50V	±10%	1
C219	CD4-7-663A-0001V	Electrolytic	47μF	6.3V		1
C220	CM1-8-3500-J00SV	Mylar	0.018μF	50V	±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C221	CM4-7-2500-J00SV	Mylar 0.0047µF 50V ±5%	1
C222	CD1-0-5500-0001V	Electrolytic 1µF 50V	1
C223	CC2-2-1500-KE00C	Ceramic 220pF 50V ±10%	1
C224	CC2-2-1500-KE00C	Ceramic 220pF 50V ±10%	1
C225	CC2-0-A500-CCK0C	Ceramic 2pF 50V ±0.2%	1
C301	CD1-0-6500-0001V	Electrolytic 10µF 50V	1
C302	CD1-0-7500-0006V	Electrolytic 100µF 50V	1
C303	CD1-0-4500-0001V	Electrolytic 0.1µF 50V	1
C304	CD1-0-6500-0001V	Electrolytic 10µF 50V	1
C305	CD1-0-6500-0001V	Electrolytic 10µF 50V	1
C306	CD2-2-7250-0006V	Electrolytic 220µF 25V	1
C307	CD2-2-7250-0006V	Electrolytic 220µF 25V	1
C308	CD4-7-6250-0001V	Electrolytic 47µF 25V	1
C309	CD4-7-6250-0001V	Electrolytic 47µF 25V	1
C310	CC4-7-3500-ZG00C	Ceramic 0.047µF 50V +80,-20%	1
C311	CC4-7-3500-ZG00C	Ceramic 0.047µF 50V +80,-20%	1

SEMICONDUCTORS

Ref. No.	Part No.	Description	Q'ty
IC1	216-5-0296-46210	IC, LA 6462 D	1
IC2	216-5-0296-46210	IC, LA 6462 D	1
IC3	205-5-3834-15210	IC, STK 4152 MRK2	1

RESISTORS

Ref. No.	Part No.	Description	Q'ty
R101	401 054 8200	OXIDE-MT 100 JA 1/2W	1
R102	401 054 7609	OXIDE-MT 10 JA 1/2W	1
R103	401 027 3003	CARBON 56K JA 1/6W	1
R104	401 025 7805	CARBON 2.2K JA 1/6W	1
R105	401 027 3003	CARBON 56K JA 1/6W	1
R106	401 025 7805	CARBON 2.2K JA 1/6W	1
R107	401 027 5502	CARBON 6.8K JA 1/6W	1
R108	401 024 9305	CARBON 1.2K JA 1/6W	1
R109	401 024 7707	CARBON 100K JA 1/6W	1
R110	401 025 7805	CARBON 2.2K JA 1/6W	1
R111	401 025 7805	CARBON 2.2K JA 1/6W	1
R112	401 025 0004	CARBON 120K JA 1/6W	1
R113	401 024 7707	CARBON 100K JA 1/6W	1
R114	401 026 0607	CARBON 270 JA 1/6W	1
R115	401 025 8703	CARBON 220K JA 1/6W	1
R116	401 025 1902	CARBON 15K JA 1/6W	1
R117	401 024 7707	CARBON 100K JA 1/6W	1
R118	401 025 7805	CARBON 2.2K JA 1/6W	1
R119	401 024 7004	CARBON 1K JA 1/6W	1
R120	401 024 7004	CARBON 1K JA 1/6W	1
R201	401 054 8200	OXIDE-MT 100 JA 1/2W	1
R202	401 054 7609	OXIDE-MT 10 JA 1/2W	1
R203	401 021 4105	CARBON 56K JA 1/4W	1
R204	401 025 7805	CARBON 2.2K JA 1/6W	1
R205	401 027 3003	CARBON 56K JA 1/6W	1
R206	401 025 7805	CARBON 2.2K JA 1/6W	1
R207	401 027 5502	CARBON 6.8K JA 1/6W	1
R208	401 024 9305	CARBON 1.2K JA 1/6W	1
R209	401 024 7707	CARBON 100K JA 1/6W	1
R210	401 016 3809	CARBON 2.2K JA 1/4W	1
R211	401 025 7805	CARBON 2.2K JA 1/6W	1
R212	401 025 0004	CARBON 120K JA 1/6W	1
R213	401 024 7707	CARBON 100K JA 1/6W	1
R214	401 026 0607	CARBON 270 JA 1/6W	1
R215	401 025 8703	CARBON 220K JA 1/6W	1
R216	401 025 1902	CARBON 15K JA 1/6W	1
R217	401 024 7707	CARBON 100K JA 1/6W	1
R218	401 025 7805	CARBON 2.2K JA 1/6W	1
R219	401 024 7004	CARBON 1K JA 1/6W	1
R220	401 024 7004	CARBON 1K JA 1/6W	1
R301	402 015 7706	FUSIBLE RES 100 J- 1/4W	1
R302	401 083 9506	CARBON 3.3K JA 1/4W	1
R303	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1
R304	401 083 9506	CARBON 3.3K JA 1/4W	1
R305	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1
R306	402 015 7706	FUSIBLE RES 100 J- 1/4W	1
R307	401 058 3805	OXIDE-MT 1K JB 1W	1
R308	401 058 3805	OXIDE-MT 1K JB 1W	1
R309	401 012 4107	CARBON 100 JA 1/4W	1
R310	401 012 4107	CARBON 100 JA 1/4W	1
R311	401 012 4107	CARBON 100 JA 1/4W	1
R312	401 012 4107	CARBON 100 JA 1/4W	1
R313	401 021 1500	CARBON 560 JA 1/4W	1
R314	401 021 1500	CARBON 560 JA 1/4W	1
R315	401 012 7009	CARBON 10K JA 1/4W	1

LEVEL METER P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
63	141-0-1939-18060	Level Meter P.C.B. Assy	1
	4-2262-29810	Level Meter P.C.B.	1
VR8	4-2229-76890	Volume (A-50kΩx2)	1
SW1	4-2319-79620	Push Switch 2Key	1
SW2	4-2319-79640	Push Switch 3Key	1
CA6	4-2359-79326	Connector 5P Assy	1
CA7	4-2359-77392	Connector 6P Assy	1
CA11	4-2352-02000	Connector 4P Assy	1
CA12	4-2359-77031	Connector 4P Assy	1
CA18	4-2352-01981	Connector 3P Assy	1
JJ4	4-2439-72736	Wire 3 Parallel	1
	131-2-6113-53000	Shelter	1

CAPACITORS

Ref. No.	Part No.	Description	Q'ty
C101	CD1-0-4500-0001V	Electrolytic 0.1µF 50V	1
C102	CD1-0-5500-0001V	Electrolytic 1µF 50V	1
C201	CD1-0-4500-0001V	Electrolytic 0.1µF 50V	1
C202	CD1-0-5500-0001V	Electrolytic 1µF 50V	1
C301	CD1-0-6160-0001V	Electrolytic 10µF 16V	1

SEMICONDUCTORS

Ref. No.	Part No.	Description	Q'ty
D101	4-2029-73960	L.E.D., SLP 166B	1
D201	4-2029-73960	L.E.D., SLP 166B	1
D301	212-5-7310-00102	Diode, GMB 01	1
IC1	4-2069-74370	IC, TA 7366 P	1
IC2	4-2069-74370	IC, TA 7366 P	1

RESISTORS

Ref. No.	Part No.	Description	Q'ty
R101	401 027 3003	CARBON 56K JA 1/6W	1
R102	401 026 9907	CARBON 4.7K JA 1/6W	1
R201	401 027 3003	CARBON 56K JA 1/6W	1
R202	401 026 9907	CARBON 4.7K JA 1/6W	1
R301	401 024 7400	CARBON 10K JA 1/6W	1
R302	401 025 8208	CARBON 22K JA 1/6W	1

FUNCTION P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
64	141-0-1939-18070	Function Switch P.C.B. Assy	1
	4-2262-29820	Function Switch P.C.B.	1
SW1	4-2319-79610	Push Switch 4Key	1
CA4	4-2359-77391	Connector 9P Assy	1
CA13	4-2352-01982	Connector 3P Assy	1
CN9	4-2362-00510	Plug 3P	1
	4-2369-73784	RT Pin 0.8 x 7L	3

RESISTORS

Ref. No.	Part No.	Description	Q'ty
R101	401 027 0309	CARBON 47K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R102	401 026 1307	CARBON 27K JA 1/6W	1
R201	401 027 0309	CARBON 47K JA 1/6W	1
R202	401 017 2801	CARBON 27K JA 1/4W	1
	LAMP P.C.B. ASSY		
65	141-0-1939-18080	Lamp P.C.B. Assy	1
	4-2262-29830	Lamp P.C.B.	1
LA1	4-6129-70670	Lamp	1
LA2	4-6129-70670	Lamp	1
	RESISTOR		
R301	401 061 5407	OXIDE-MT 39 JB 1W	1
	POWER SWITCH P.C.B. ASSY		
66	141-0-1939-18090	Power Switch P.C.B Assy	1
	4-2262-29840	Power Switch P.C.B.	1
SW1	⚠ 4-2312-05710	Switch Push Power	1
F301	⚠ 4-2349-20580	Fuse T3.15A	1
F302	⚠ 4-2349-20580	Fuse T3.15A	1
F303	⚠ 4-2349-20380	Fuse T1.0A	1
CA8	4-2359-78179	Connector 5P Assy	1
	4-2352-01170	Jack 7P 6.45	1
	4-2352-01940	Fuse Clip	6
	4-2372-00830	EC Terminal 1P	2
	111-2-6220-11100	Wire Wrap Terminal	10
	131-2-6114-01400	Cover Safty	1
	CAPACITOR		
C301	4-2239-70970	Capacitor 0.01μF 400V	1
	RESISTORS		
R101	401 055 9602	OXIDE-MT 330 JA 1/2W	1
R102	401 055 9602	OXIDE-MT 330 JA 1/2W	1
R201	401 055 9602	OXIDE-MT 330 JA 1/2W	1
R202	401 055 9602	OXIDE-MT 330 JA 1/2W	1
	SPEAKER TERMINAL P.C.B. ASSY		
67	141-0-1939-18100	Speaker Terminal P.C.B. Assy	1
	4-2262-29850	Speaker Terminal P.C.B.	1
F101	⚠ 4-2349-20540	Fuse T3.15A	1
F201	⚠ 4-2349-20540	Fuse T3.15A	1
F301	⚠ 4-2349-20380	Fuse T1.0A	1
F302	⚠ 4-2349-20380	Fuse T1.0A	1
CN8	4-2362-00100	Plug 5P	1
	4-2352-01940	Fuse Clip	8
	4-2359-79090	Socket 2P-2	1
	4-2379-70820	4P Push Terminal	1
	111-2-6220-11100	Wire Wrap Terminal	4
	131-2-7103-53600	Fuse Label	2
	CAPACITORS		
C101	CM1-2-2500-K00SV	Mylar 0.0012μF 50V ±10%	1
C102	CM1-2-2500-K00SV	Mylar 0.0012μF 50V ±10%	1
C201	CM1-2-2500-K00SV	Mylar 0.0012μF 50V ±10%	1
C202	CM1-2-2500-K00SV	Mylar 0.0012μF 50V ±10%	1
	DOLBY NR P.C.B. ASSY		
68	141-0-1939-18110	Dolby NR P.C.B. Assy	1
	4-2262-29860	Dolby NR P.C.B.	1
F101	4-2729-70830	Filter 105 30	1

Ref. No.	Part No.	Description	Q'ty
F102	4-2729-70820	Filter Skew	1
F201	4-2729-70830	Filter 105 30	1
F202	4-2729-70820	Filter Skew	1
CN13	4-2369-75570	Plug 3P	1
PL1	4-2369-75884	Plug 8P	1
PL2	4-2369-75882	Plug 10P	1
	CAPACITORS		
C101	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C102	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C103	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C104	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C105	CC6-8-1500-KD00C	Ceramic 680pF 50V ±10%	1
C106	CM2-7-2500-K00SV	Mylar 0.0027μF 50V ±10%	1
C107	CM4-7-2500-K00SV	Mylar 0.0047μF 50V ±10%	1
C108	CD4-7-4500-0KB1V	Electrolytic 0.47μF 50V	1
C109	CD1-5-4500-0KB1V	Electrolytic 0.15μF 50V	1
C110	CD2-2-4500-0KB1V	Electrolytic 0.22μF 50V	1
C111	CM6-8-3500-K00SV	Mylar 0.068μF 50V ±10%	1
C112	CM6-8-2500-K00SV	Mylar 0.0068μF 50V ±10%	1
C113	CM1-0-3500-K00SV	Mylar 0.01μF 50V ±10%	1
C114	CM4-7-3500-K00SV	Mylar 0.047μF 50V ±10%	1
C115	CM1-5-3500-K00SV	Mylar 0.015μF 50V ±10%	1
C116	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C117	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C201	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C202	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C203	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C204	CD2-2-5500-0001V	Electrolytic 2.2μF 50V	1
C205	CC6-8-1500-KD00C	Ceramic 680pF 50V ±10%	1
C206	CM2-7-2500-K00SV	Mylar 0.0027μF 50V ±10%	1
C207	CM4-7-2500-K00SV	Mylar 0.0047μF 50V ±10%	1
C208	CD4-7-4500-0KB1V	Electrolytic 0.47μF 50V	1
C209	CD1-5-4500-0KB1V	Electrolytic 0.15μF 50V	1
C210	CD2-2-4500-0KB1V	Electrolytic 0.22μF 50V	1
C211	CM6-8-3500-K00SV	Mylar 0.068μF 50V ±10%	1
C212	CM6-8-2500-K00SV	Mylar 0.0068μF 50V ±10%	1
C213	CM1-0-3500-K00SV	Mylar 0.01μF 50V ±10%	1
C214	CM4-7-3500-K00SV	Mylar 0.047μF 50V ±10%	1
C215	CM1-5-3500-K00SV	Mylar 0.015μF 50V ±10%	1
C216	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C217	CD4-7-5500-0001V	Electrolytic 4.7μF 50V	1
C301	CD1-0-5500-0001V	Electrolytic 1μF 50V	1
C302	CD2-2-7100-0001V	Electrolytic 220μF 10V	1
C303	CD1-0-6160-0001V	Electrolytic 10μF 16V	1
C304	CM2-2-3500-K00SV	Mylar 0.022μF 50V ±10%	1
C305	CC1-5-2500-KE00C	Ceramic 0.0015μF 50V ±10%	1
C306	CD4-7-4500-0001V	Electrolytic 0.47μF 50V	1
C307	CD4-7-4500-0001V	Electrolytic 0.47μF 50V	1
C308	CB1-0-6100-0000V	None-polar 10μF 10V	1
C309	CD4-7-6160-0001V	Electrolytic 47μF 16V	1
C310	CD2-2-7160-0006V	Electrolytic 220μF 16V	1
	SEMICONDUCTORS		
D301	202-5-3210-11013	Zener Diode, GZA 11Z	1
D302	212-5-7310-00102	Diode, GMB 01	1
IC1	4-2069-74870	IC, CX 20187	1
IC2	206-5-1242-00010	IC, LA 2000	1
Q101	203-5-5000-53660	Transistor, 2SC 536	1
Q102	203-5-5000-53660	Transistor, 2SC 536	1
Q103	203-5-4921-01274	Transistor, 2SD 1012	1
Q201	203-5-5000-53660	Transistor, 2SC 536	1
Q202	203-5-5000-53660	Transistor, 2SC 536	1
Q203	203-5-4921-01274	Transistor, 2SD 1012	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
Q301	203-5-5000-53660	Transistor, 2SC 536				1
	RESISTORS					
R101	401 027 5502	CARBON 6.8K JA 1/6W				1
R102	401 027 4307	CARBON 6.2K JA 1/6W				1
R103	401 031 4508	CARBON 430 JA 1/8W				1
R104	401 026 1000	CARBON 2.7K JA 1/6W				1
R105	401 026 7002	CARBON 3.9K JA 1/6W				1
R106	401 027 5502	CARBON 6.8K JA 1/6W				1
R107	401 027 5205	CARBON 680 JA 1/6W				1
R108	401 024 7004	CARBON 1K JA 1/6W				1
R109	401 032 6808	CARBON 7.5K JA 1/8W				1
R110	401 025 8703	CARBON 220K JA 1/6W				1
R111	401 024 7004	CARBON 1K JA 1/6W				1
R112	401 025 7805	CARBON 2.2K JA 1/6W				1
R113	401 024 7004	CARBON 1K JA 1/6W				1
R114	401 025 4200	CARBON 1.8K JA 1/6W				1
R115	401 021 3009	CARBON 5.6K JA 1/4W				1
R116	401 032 6808	CARBON 7.5K JA 1/8W				1
R201	401 027 5502	CARBON 6.8K JA 1/6W				1
R202	401 027 4307	CARBON 6.2K JA 1/6W				1
R203	401 031 4508	CARBON 430 JA 1/8W				1
R204	401 026 1000	CARBON 2.7K JA 1/6W				1
R205	401 026 7002	CARBON 3.9K JA 1/6W				1
R206	401 027 5502	CARBON 6.8K JA 1/6W				1
R207	401 027 5205	CARBON 680 JA 1/6W				1
R208	401 024 7004	CARBON 1K JA 1/6W				1
R209	401 032 6808	CARBON 7.5K JA 1/8W				1
R210	401 025 8703	CARBON 220K JA 1/6W				1
R211	401 024 7004	CARBON 1K JA 1/6W				1
R212	401 025 7805	CARBON 2.2K JA 1/6W				1
R213	401 024 7004	CARBON 1K JA 1/6W				1
R214	401 025 4200	CARBON 1.8K JA 1/6W				1
R215	401 021 3009	CARBON 5.6K JA 1/4W				1
R216	401 032 6808	CARBON 7.5K JA 1/8W				1
R301	401 025 8208	CARBON 22K JA 1/6W				1
R302	401 024 7707	CARBON 100K JA 1/6W				1
R303	401 012 4107	CARBON 100 JA 1/4W				1
R304	401 015 1301	CARBON 180 JA 1/4W				1
R305	401 026 7002	CARBON 3.9K JA 1/6W				1
R306	401 027 5502	CARBON 6.8K JA 1/6W				1
R307	401 025 7805	CARBON 2.2K JA 1/6W				1
R308	401 025 2305	CARBON 150K JA 1/6W				1
R309	401 026 7002	CARBON 3.9K JA 1/6W				1
	GRAPHIC EQ. P.C.B. ASSY					
69	141-0-1939-18120	Graphic EQ. P.C.B. Assy				1
	4-2262-29870	Graphic EQ. P.C.B.				1
VR1	4-2229-76910	Slide Volume (SW-100kΩx2)				1
VR2	4-2229-76910	Slide Volume (SW-100kΩx2)				1
VR3	4-2229-76910	Slide Volume (SW-100kΩx2)				1
VR4	4-2229-76910	Slide Volume (SW-100kΩx2)				1
VR5	4-2229-76910	Slide Volume (SW-100kΩx2)				1
VR6	4-2229-76470	Slide Volume (W-200kΩ)				1
VR7	4-2229-76880	Slide Volume (A-100kΩx2)				1
CA9	4-2359-77390	Connector 3P Assy				1
CA14	4-2352-01983	Connector 3P Assy				1
CA15	4-2359-77804	Connector 4P Assy				1
	CAPACITORS					
C101	CC1-2-0500-KD00C	Ceramic	12pF	50V	±10%	1
C102	CD1-0-6250-0002V	Electrolytic	10μF	25V		1
C103	CC1-0-2500-KD00C	Ceramic	0.001μF	50V	±10%	1
C104	CC1-5-1500-KD00C	Ceramic	150pF	50V	±10%	1
C105	CC6-8-1500-KE00C	Ceramic	680pF	50V	±10%	1
C106	CM3-3-2500-J00BV	Mylar	0.0033μF	50V	±5%	1
C107	CM1-0-3500-J00BV	Mylar	0.01μF	50V	±5%	1
C108	CM3-3-3500-J00TV	Mylar	0.033μF	50V	±5%	1
C109	CM5-6-2500-J00BV	Mylar	0.0056μF	50V	±5%	1
C110	CM2-2-3500-J00BV	Mylar	0.022μF	50V	±5%	1
C111	CM8-2-3500-J00TV	Mylar	0.082μF	50V	±5%	1
C112	CD4-7-4500-0002V	Electrolytic	0.47μF	50V		1
C113	CD2-2-5500-0002V	Electrolytic	2.2μF	50V		1
C114	CD2-2-6250-0002V	Electrolytic	22μF	25V		1
C201	CC1-2-0500-KD00C	Ceramic	12pF	50V	±10%	1
C202	CD1-0-6250-0002V	Electrolytic	10μF	25V		1
C203	CC1-0-2500-KD00C	Ceramic	0.001μF	50V	±10%	1
C204	CC1-5-1500-KD00C	Ceramic	150pF	50V	±10%	1
C205	CC6-8-1500-KE00C	Ceramic	680pF	50V	±10%	1
C206	CM3-3-2500-J00BV	Mylar	0.0033μF	50V	±5%	1
C207	CM1-0-3500-J00BV	Mylar	0.01μF	50V	±5%	1
C208	CM3-3-3500-J00TV	Mylar	0.033μF	50V	±5%	1
C209	CM5-6-2500-J00BV	Mylar	0.0056μF	50V	±5%	1
C210	CM2-7-3500-J00BV	Mylar	0.027μF	50V	±5%	1
C211	CM8-2-3500-J00TV	Mylar	0.082μF	50V	±5%	1
C212	CD4-7-4500-0002V	Electrolytic	0.47μF	50V		1
C213	CD2-2-5500-0002V	Electrolytic	2.2μF	50V		1
C214	CD2-2-6250-0002V	Electrolytic	22μF	25V		1
C301	CD4-7-6160-0002V	Electrolytic	47μF	16V		1
C302	CD4-7-6160-0002V	Electrolytic	47μF	16V		1
	SEMICONDUCTORS					
IC1	207-5-0853-60010	IC, LA 3600				1
IC2	207-5-0853-60010	IC, LA 3600				1
	RESISTORS					
R101	401 024 7707	CARBON 100K JA 1/6W				1
R102	401 024 7004	CARBON 1K JA 1/6W				1
R103	401 020 2003	CARBON 4.7K JA 1/4W				1
R105	401 026 4605	CARBON 33K JA 1/6W				1
R201	401 024 7707	CARBON 100K JA 1/6W				1
R202	401 026 9907	CARBON 4.7K JA 1/6W				1
R203	401 020 2003	CARBON 4.7K JA 1/4W				1
R205	401 026 4605	CARBON 33K JA 1/6W				1
R301	401 015 2704	CARBON 1.8K JA 1/4W				1

NOTES:

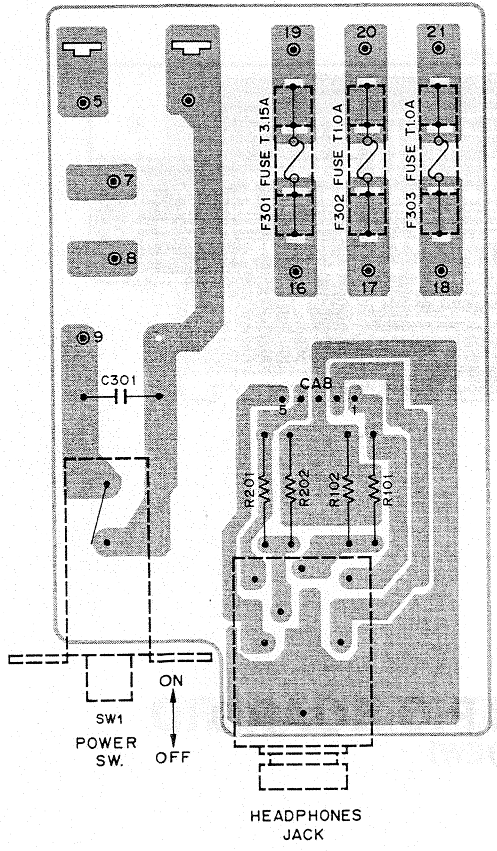
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

POWER SW. P.C.BOARD

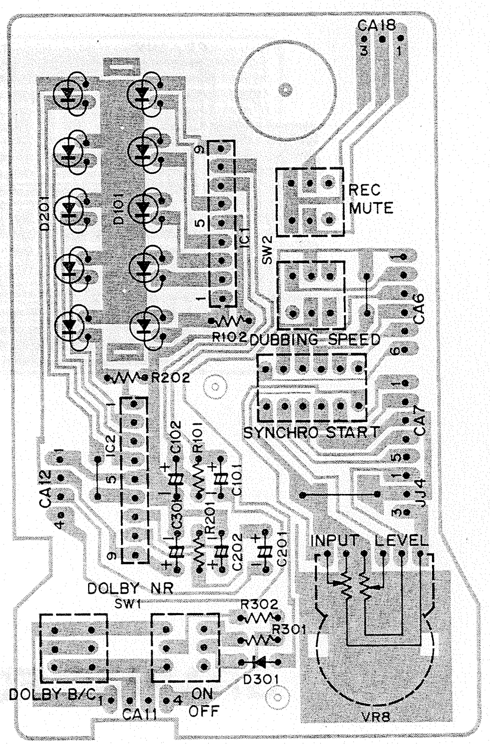
(BOTTOM VIEW)



5
7
8
9
19
20
21
F301 FUSE T3.15A
F302 FUSE T1.0A
F303 FUSE T1.0A
16
17
18
C301
CA8
5
1
R201
R202
R102
R101
ON
OFF
SW1
POWER SW.
HEADPHONES JACK

LEVEL METER P.C.BOARD

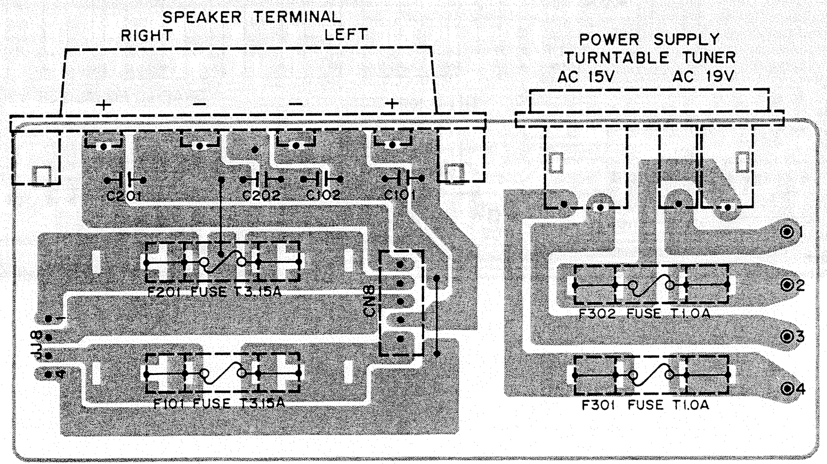
(BOTTOM VIEW)



CA18
3
1
D201
D101
9
5
IC1
1
SW2
REC
MUTE
CA6
R102
DUBBING SPEED
6
R202
1
IC2
5
C102
R101
C101
SYNCHRO START
CA7
CA12
4
C301
R201
C202
C201
JJ4
9
INPUT LEVEL
DOLBY NR
SW1
R302
R301
D301
DOLBY B/C
1
CA11
4
ON
OFF
VR8

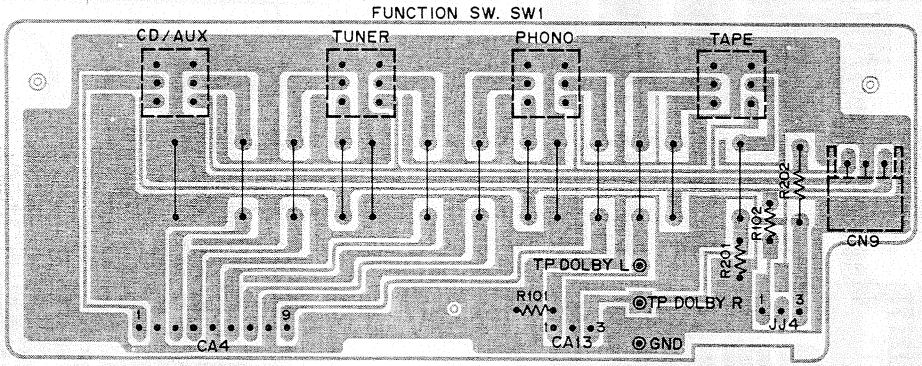
SPEAKER TERMINAL P.C.BOARD

(BOTTOM VIEW)



SPEAKER TERMINAL
RIGHT
LEFT
+
−
−
+
C201
C202
C102
C101
F201 FUSE T3.15A
CN8
JJ18
F101 FUSE T3.15A
POWER SUPPLY
TURNTABLE
TUNER
AC 15V
AC 19V
1
2
3
4
F302 FUSE T1.0A
F301 FUSE T1.0A

FUNCTION SW. P.C.BOARD
(BOTTOM VIEW)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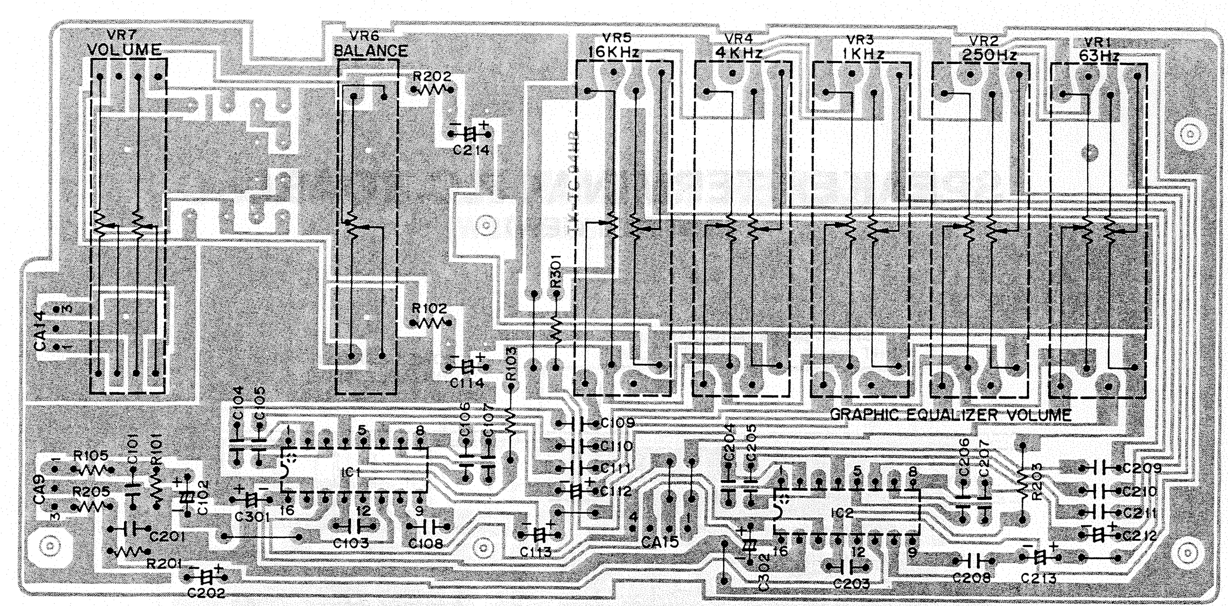
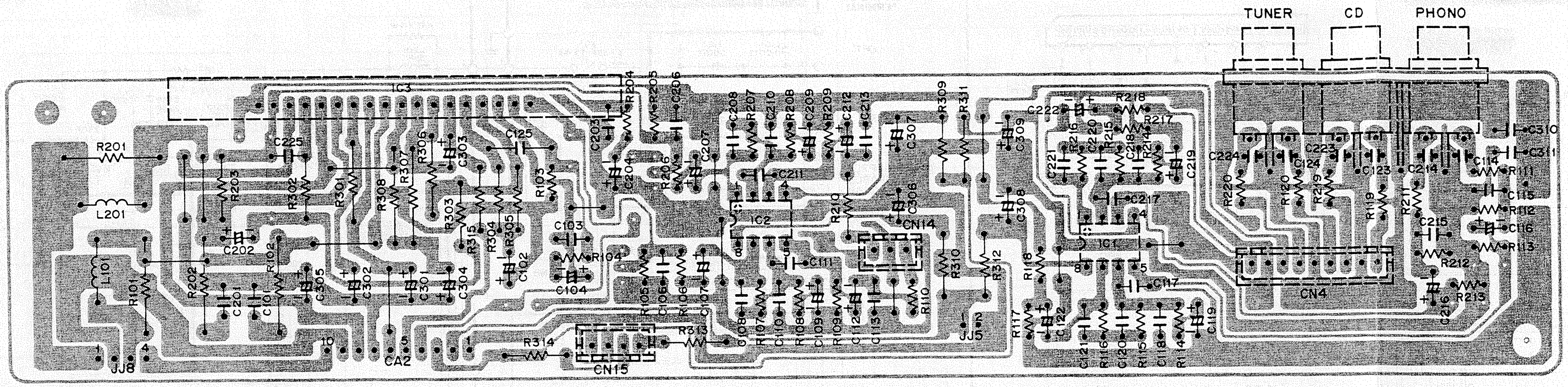
CD/AUX
TUNER
PHONO
TAPE
R202
R102
R201
CN9
TP DOLBY L
TP DOLBY R
R101
1
9
CA4
1
3
CA13
GND
1
3
JJ4

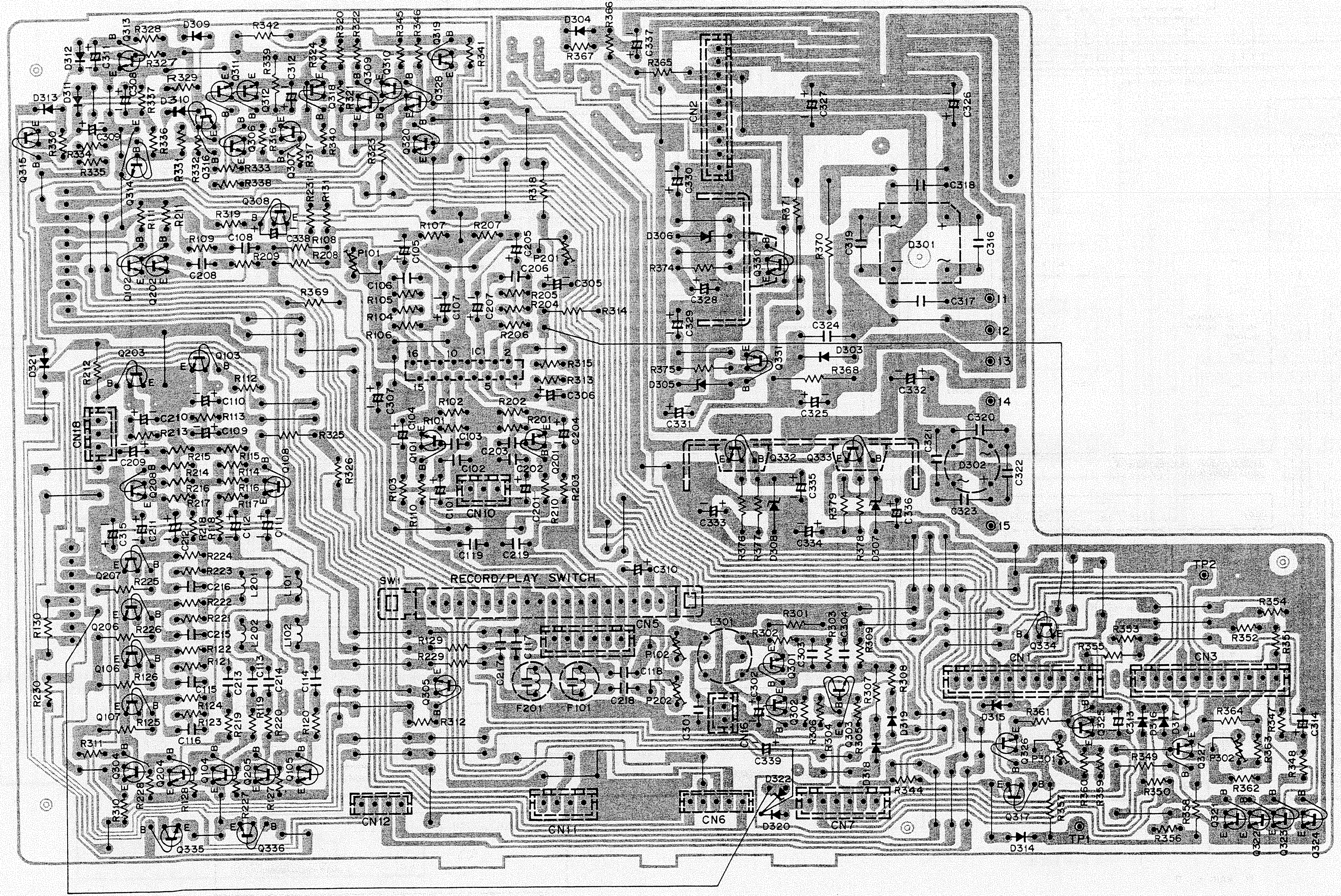
GRAPHIC EQUALIZER P.C.BOARD
(BOTTOM VIEW)


VR7
VOLUME
VR6
BALANCE
R202
C214
VR5
16KHz
VR4
4KHz
VR3
1KHz
VR2
250Hz
VR1
63Hz
R301
R102
C114
R103
CA14
1
3
GRAPHIC EQUALIZER VOLUME
C104
C105
C106
C107
C109
C110
C111
C112
R105
C101
R101
CA9
1
3
R205
C102
C301
5
8
IC1
16
12
9
C201
C103
C108
C113
R201
C202
CA15
C204
C205
C302
5
8
IC2
16
12
9
C203
C206
C207
R203
C209
C210
C211
C212
C208
C213

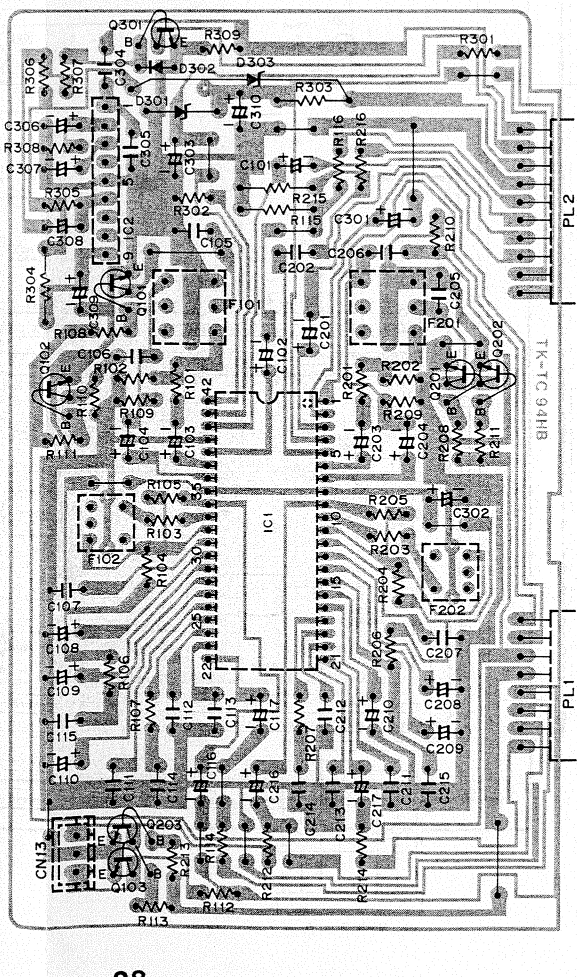
POWER AMPLIFIER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)


TUNER
CD
PHONO
IC3
IC2
IC1
CN4
CN14
CN15
L201
L101
JJ8
CA2
JJ5

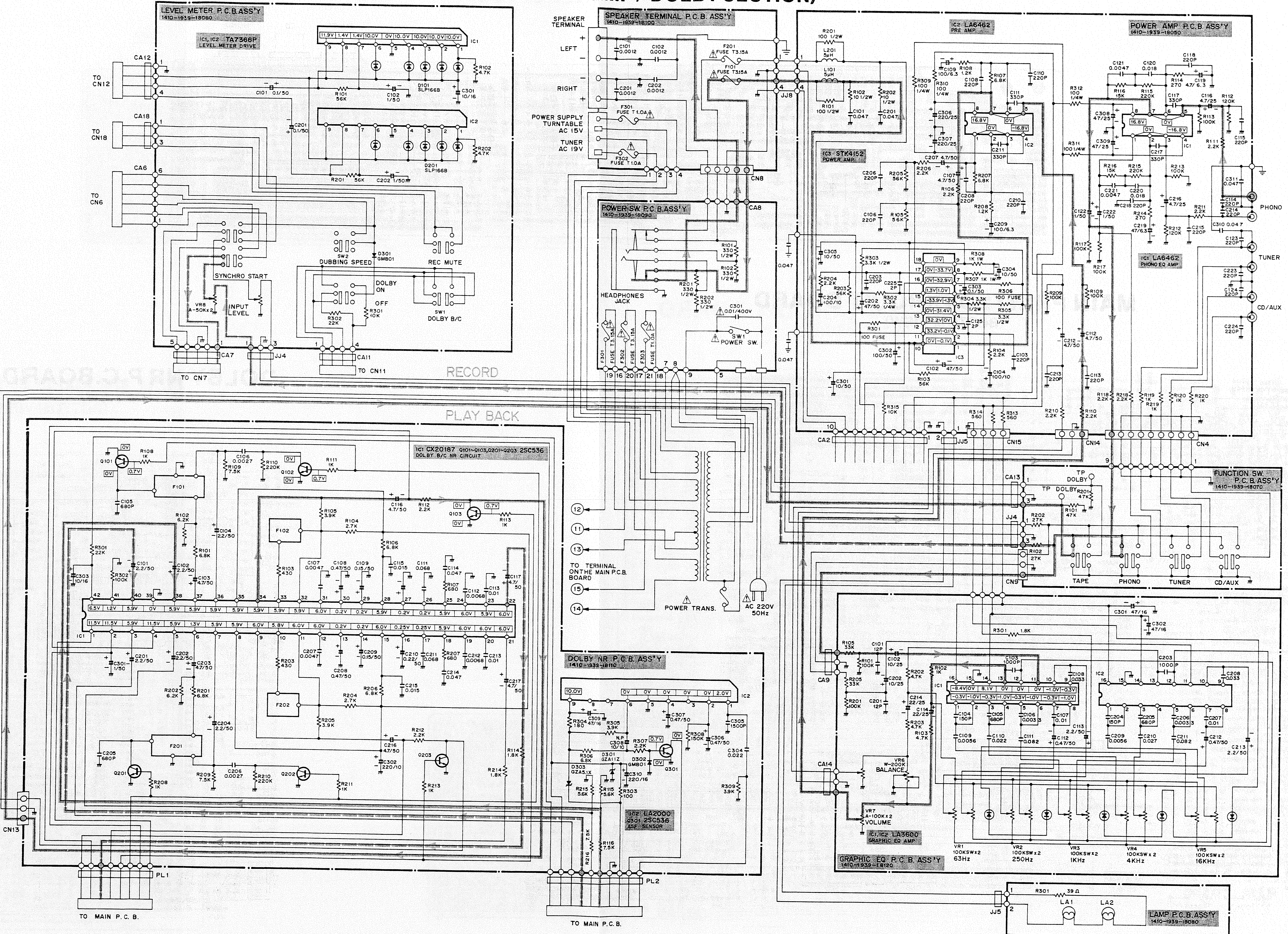
MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)


RECORD/PLAY SWITCH
SW1
IC1
CN1
CN2
CN3
CN5
CN6
CN7
CN10
CN11
CN12
CN18
F101
F201
P102
P202
D301
D302
L301
TP2
TP

DOLBY NR P.C.BOARD
(BOTTOM VIEW)


IC1
IC2
PL1
PL2
CN13
F101
F102
F201
F202
TK-TC 94HB

SCHEMATIC DIAGRAM
(GR. EQ. POWER AMP / DOLBY SECTION)

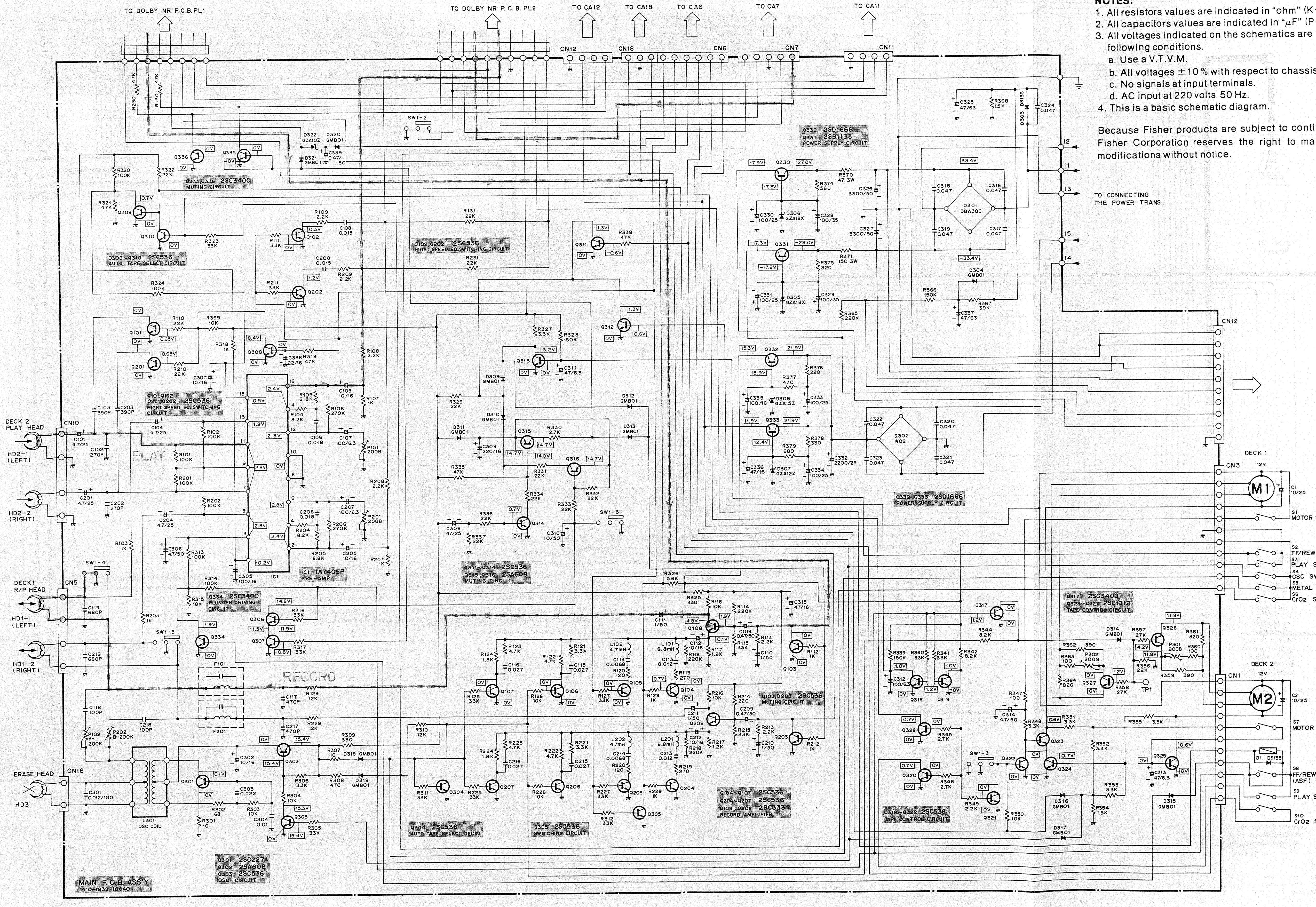

LEVEL METER P.C.B.ASS'Y
1410-1939-18060
IC1, IC2 TA7366P
LEVEL METER DRIVE
TO CN12
TO CN18
TO CN6
CA12
CA18
CA6
D101 SLP166B
D201 SLP166B
SYNCHRO START
SW2 DUBBING SPEED
D301 GMB01
REC MUTE
DOLBY
ON
OFF
SW1 DOLBY B/C
VR8 A-50K×2
INPUT LEVEL
CA7
JJ4
CA11
TO CN7
TO CN11
RECORD
PLAY BACK
SPEAKER TERMINAL
SPEAKER TERMINAL P.C.B. ASS'Y
1410-1939-18100
LEFT
RIGHT
POWER SUPPLY TURNTABLE AC 15V
TUNER AC 19V
F201 FUSE T3.15A
F101 FUSE T3.15A
F301 FUSE T1.0A
F302 FUSE T1.0A
JJ8
CN8
CA8
POWER SW. P.C.B.ASS'Y
1410-1939-18090
HEADPHONES JACK
SW1 POWER SW.
IC2 LA6462
PRE AMP
IC3 STK4152
POWER AMP
POWER AMP P.C.B ASS'Y
1410-1939-18050
IC1 LA6462
PHONO EQ AMP
PHONO
TUNER
CD/AUX
CA2
JJ5
CN15
CN14
CN4
FUNCTION SW. P.C.B.ASS'Y
1410-1939-18070
TP DOLBY
TAPE
PHONO
TUNER
CD/AUX
CA13
JJ4
CN9
TO TERMINAL ON THE MAIN P.C.B. BOARD
POWER TRANS.
AC 220V 50Hz
IC1 CX20187 Q101~Q103,Q201~Q203 2SC536
DOLBY B/C NR CIRCUIT
CN13
PL1
TO MAIN P.C.B.
DOLBY NR P.C.B. ASS'Y
1410-1939-18110
IC2 LA2000
Q301 2SC536
ASF SENSOR
PL2
TO MAIN P.C.B.
CA9
CA14
VR6 W-200K BALANCE
VR7 A-100K×2 VOLUME
IC1,IC2 LA3600
GRAPHIC EQ AMP
GRAPHIC EQ P.C.B. ASS'Y
1410-1939-18120
VR1 100KSW×2 63Hz
VR2 100KSW×2 250Hz
VR3 100KSW×2 1KHz
VR4 100KSW×2 4KHz
VR5 100KSW×2 16KHz
LAMP P.C.B.ASS'Y
1410-1939-18080
JJ5
R301 39Ω
LA1
LA2

SCHEMATIC DIAGRAM (Continued)
(CASSETTE DECK / POWER SUPPLY SECTION)

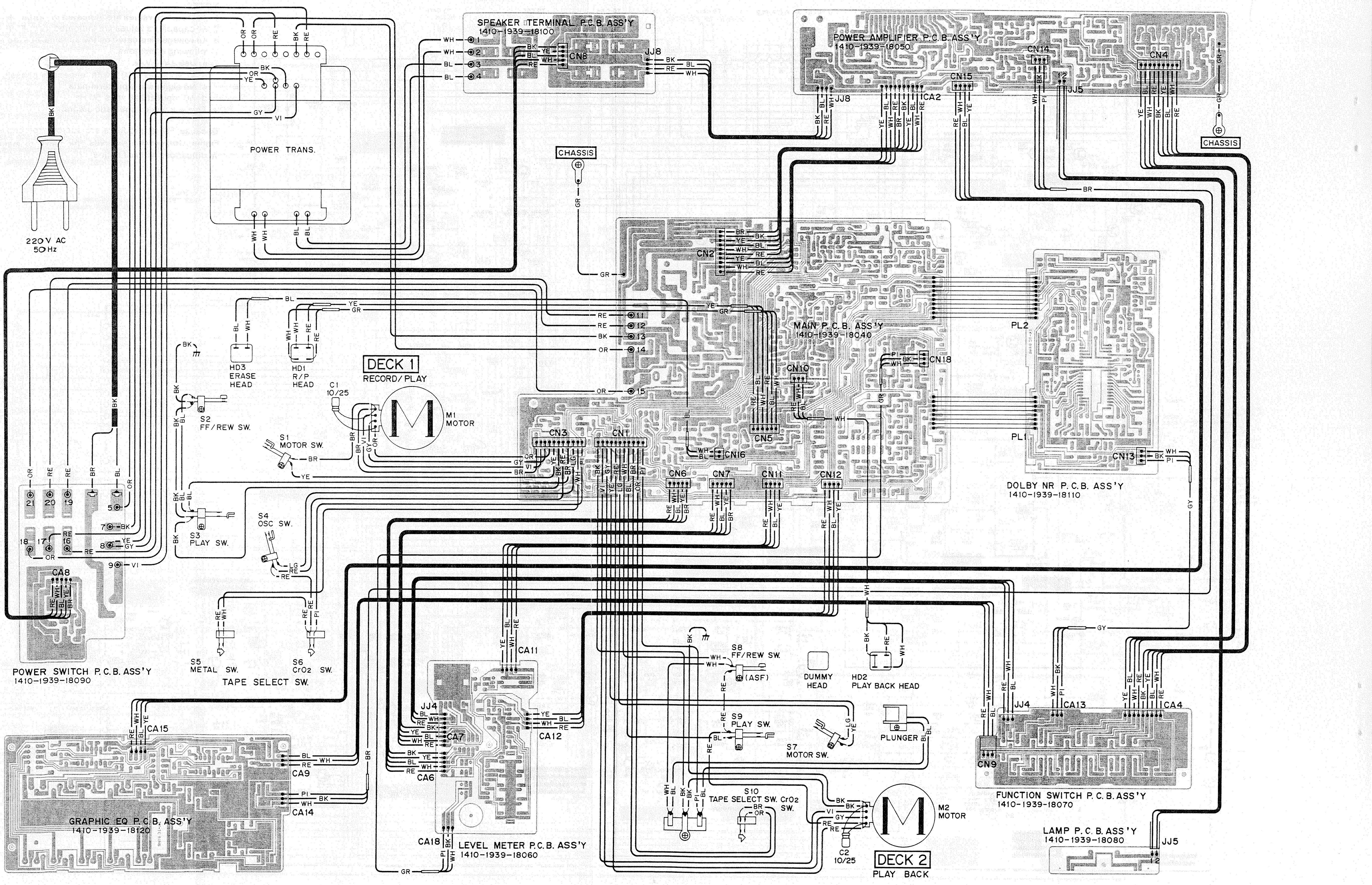
NOTES:

1. All resistors values are indicated in "ohm" (K=10^3, M=10^6).
2. All capacitors values are indicated in "μF" (P=10^{-12}).
3. All voltages indicated on the schematics are measured under the following conditions.
   a. Use a V.T.V.M.
   b. All voltages ±10 % with respect to chassis ground.
   c. No signals at input terminals.
   d. AC input at 220 volts 50 Hz.
4. This is a basic schematic diagram.

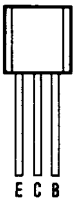
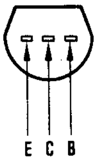
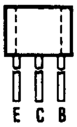
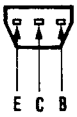
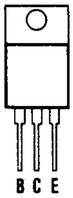
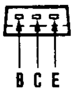
Because Fisher products are subject to continuous improvement, Fisher Corporation reserves the right to make any changes or modifications without notice.


TO DOLBY NR P.C.B. PL1
TO DOLBY NR P.C.B. PL2
TO CA12
TO CA18
TO CA6
TO CA7
TO CA11
CN12
CN18
CN6
CN7
CN11
Q335,Q336 2SC3400 MUTING CIRCUIT
Q308~Q310 2SC536 AUTO TAPE SELECT CIRCUIT
Q102,Q202 2SC536 HIGHT SPEED EQ.SWITCHING CIRCUIT
Q101,Q102, Q201,Q202 2SC536 HIGHT SPEED EQ. SWITCHING CIRCUIT
Q330 2SD1666 Q331 2SB1133 POWER SUPPLY CIRCUIT
Q332,Q333 2SD1666 POWER SUPPLY CIRCUIT
TO CONNECTING THE POWER TRANS.
DECK 2 PLAY HEAD
HD2-1 (LEFT)
HD2-2 (RIGHT)
DECK1 R/P HEAD
HD1-1 (LEFT)
HD1-2 (RIGHT)
ERASE HEAD
HD3
PLAY
RECORD
IC1 TA7405P PRE-AMP
Q311~Q314 2SC536 Q315,Q316 2SA608 MUTING CIRCUIT
Q334 2SC3400 PLUNGER DRIVING CIRCUIT
Q103,Q203 2SC536 MUTING CIRCUIT
Q104~Q107 2SC536 Q204~Q207 2SC536 Q108,Q208 2SC3331 RECORD AMPLIFIER
Q317 2SC3400 Q323~Q327 2SD1012 TAPE CONTROL CIRCUIT
Q318~Q322 2SC536 TAPE CONTROL CIRCUIT
Q304 2SC536 AUTO TAPE SELECT DECK1
Q305 2SC536 SWITCHING CIRCUIT
Q301 2SC2274 Q302 2SA608 Q303 2SC536 OSC CIRCUIT
L301 OSC COIL
MAIN P.C.B. ASS'Y 1410-1939-18040
DECK 1
DECK 2
M1
M2
S1 MOTOR SW.
S2 FF/REW SW.
S3 PLAY SW.
S4 OSC SW.
S5 METAL SW.
S6 CrO2 SW.
S7 MOTOR SW.
S8 FF/REW SW. (ASF)
S9 PLAY SW.
S10 CrO2 SW.
CN3
CN1
CN10
CN5
CN16
TP1

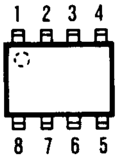
POINT TO POINT WIRING DIAGRAM


SPEAKER TERMINAL P.C.B. ASS'Y
1410-1939-18100
POWER AMPLIFIER P.C.B. ASS'Y
1410-1939-18050
CN14
CN4
CN15
CA2
JJ8
JJ5
CN8
CHASSIS
POWER TRANS.
220V AC
50Hz
MAIN P.C.B. ASS'Y
1410-1939-18040
CN2
CN10
CN18
CN5
CN16
CN3
CN1
CN6
CN7
CN11
CN12
PL2
PL1
CN13
DOLBY NR P.C.B. ASS'Y
1410-1939-18110
HD3
ERASE
HEAD
HD1
R/P
HEAD
DECK 1
RECORD/PLAY
C1
10/25
M1
MOTOR
S2
FF/REW SW.
S1
MOTOR SW.
S3
PLAY SW.
S4
OSC SW.
S5
METAL SW.
S6
CrO2 SW.
TAPE SELECT SW.
CA8
POWER SWITCH P.C.B. ASS'Y
1410-1939-18090
CA15
CA9
CA14
GRAPHIC EQ P.C.B. ASS'Y
1410-1939-18120
JJ4
CA7
CA6
CA11
CA12
CA18
LEVEL METER P.C.B. ASS'Y
1410-1939-18060
S8
FF/REW SW.
(ASF)
DUMMY
HEAD
HD2
PLAY BACK HEAD
S9
PLAY SW.
S7
MOTOR SW.
PLUNGER
S10
TAPE SELECT SW. CrO2
SW.
M2
MOTOR
C2
10/25
DECK 2
PLAY BACK
JJ4
CA13
CA4
CN9
FUNCTION SWITCH P.C.B. ASS'Y
1410-1939-18070
LAMP P.C.B. ASS'Y
1410-1939-18080
JJ5

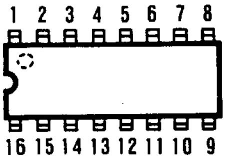
SEMICONDUCTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA 608 2SC 536 2SC 2274 2SC 3331		
2SC 3400 2SD 1012		
2SB 1133 2SD 1666		
TERMINAL NAME		
B → BASE C → COLLECTOR E → EMITTER		

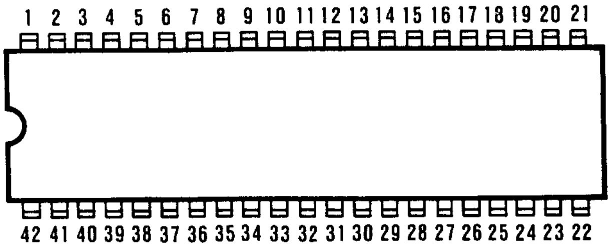
LA 6462 D BOTTOM VIEW



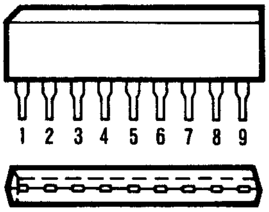
LA 3600 BOTTOM VIEW


1 2 3 4 5 6 7 8
16 15 14 13 12 11 10 9

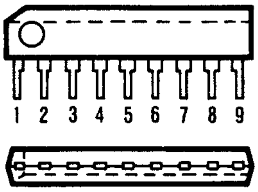
CX-20187 BOTTOM VIEW


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22

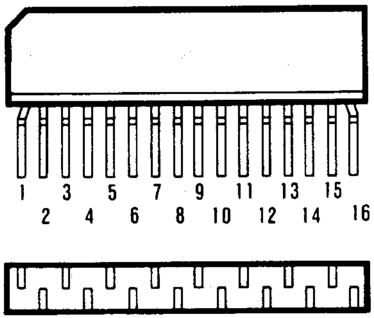
TA 7366 P FRONT/BOTTOM VIEWS



LA 2000 FRONT/BOTTOM VIEWS



TA 7405 P FRONT/BOTTOM VIEWS


1 3 5 7 9 11 13 15
2 4 6 8 10 12 14 16